RFXpress® RFX100
Advanced RF/IF/IQ Waveform Creation and Editing Software For the AWG5000/B & AWG7000/B Series Signal Generators

Programmer Manual

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Tektronix

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RFXpress® RFX100 Programmer Online Help, part number 076-0216-01.

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Getting Started

Introduction

This online programmer manual provides information on how to use commands for remotely controlling your instrument. With this information, you can write computer programs that will perform functions such as setting the setup and multi-carrier functions.

The programmer manual is divided into sections. Each section describes a closely related group of commands. For example, all the compile settings commands are in one section and generic signal setup options are grouped in another section.

The RFXpress programmatic interface works seamlessly with the AWG7000B and AWG5000B series instruments programmatic interface. It supports all the interfaces of the AWG7000B/AWG5000B series instruments. Using a single VISA or raw socket session, it is possible to communicate with both RFXpress and AWG.

For information on the Remote Control, GPIB Parameters, LAN Parameters, Connecting to the Instrument using GPIB, and Setting up GPIB Communication, refer to the *AWG5000B and AWG7000B Series Arbitrary Waveform Generators Programmer Manual*.

Documentation

In addition to this RFXpress Programmer Online Guide, the following documentation is included with this application:

- RFXpress Quick Start User Manual. The Quick Start User Manual has information about installing and operating your instrument.
- RFXpress User Online Help. The online help provides in-depth operation and user interface help.
- RFXpress RFX100 User Manual (PDF). The user manual provides in-depth operation and user interface help.
- RFXpress RFX100 Installation Manual (PDF). The install manual provided in-depth installation help.

Sample Program

The sample program illustrates methods you can use to control RFXpress.

Application Example: Radar

The following is an example on how to generate a LFM waveform with coherent carrier for pulse compression using PI commands.

1. Start RFXpress.

   Command: `RFXPress`

2. Select the Radar application.

   Command: `RFXPress:SELApp "Radar"`

3. Set the Carrier Magnitude (Peak) to 0dBm (default).

   Command: `RFXPress:RADAr:CARRier:MAGNitude 0`

4. Set the Carrier Frequency to 100 MHz (default).

   Command: `RFXPress:RADAr:CARRier:FREQuency 100E06`

5. Select Coherent Carrier (default).

   Command: `RFXPress:RADAr:CARRier:COHErent ON`

6. Set Pulse Shape to Rectangular.

   Command: `RFXPress:RADAr:PULSe:PENVelope:SHAPe "Rectangular"`

7. Set Start Time to 0 ps (default).

   Command: `RFXPress:RADAr:PULSe:PENVelope:TIME:STARtvalue 0`

8. Set Pulse Width to 10 µs at 100%.

   Commands: `RFXPress:RADAr:PULSe:PENVelope:WIDTh:VALUe 10E-06 RFXPress:RADAr:PULSe:PENVelope:WIDTh:POWEr "Hundred"`

9. Set Off Time to 198 µs.

   Command: `RFXPress:RADAr:PULSe:PENVelope:TIME:OFFTime 198E-06`

10. Set Amplitude Relative to Carrier to 0 dB (default).

    Command: `RFXPress:RADAr:PULSe:PENVelope:RELAmplitude 0`

11. Set Offset from Carrier Frequency to 0 Hz (default).

    Command: `RFXPress:RADAr:PULSe:PENVelope:CAROffset 0`

12. Set Repeat to 1 (default).

Command: `RFXPress:RADAr:PULSe:PENVelope:REPEat 1`

13. Select Modulation to Linear Frequency Modulation.

    Command: `RFXPress:RADAr:PULSe:MODUlation "Linear Frequency Modulation"`

14. Set Sweep Range to 10 MHz.

    Command: `RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange 10E06`

15. Set Frequency Sweep to Low to High.

    Command: `RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep "Low to High"`

16. Set Signal Format to IF/RF.

    Command: `RFXPress:COMPile:SIGFormat IFRF`

17. Set Signal Format to IF/RF.

    Command: `RFXPress:COMPile:SIGFormat IFRF`

18. Select Automatic Oversampling Calculation option.

    Command: `RFXPress:COMPile:AOVErsampl ON`

19. Compile.

    Command: `RFXPress:COMPile`

Application Example: Generic signal

The following is an example of how to generate a multi carrier RF signal using PI commands.

1. Start RFXpress.

   Command: `RFXPress`

2. Select Generic signal application.

   Command: `RFXPress:SELApp "Generic signal"`

3. Select the signal type as IF/RF.

   Command: `RFXPress:COMPile:SIGFormat IFRF`

4. Select Multicarrier.

   Command: `RFXPress:GENPurpose:CARType MULTi`

5. Add two carriers.

   Command: `RFXPress:GENPurpose:ADDCarrier 2`

6. Set the Multicarrier state to ON.

Command: `RFXPress:GENPurpose:MLTCarrier:STATe ON`

7. Set the Multicarrier option to Range.

   Command: `RFXPress:GENPurpose:MLTCarrier:OPTion RANGe`

8. Set the Base Frequency to 10 MHz.

   Commands: `RFXPress:GENPurpose:MLTCarrier:BSEFreq 10E06`

9. Set the Carrier Spacing to 10 MHz.

   Command: `RFXPress:GENPurpose:MLTCarrier:CARSpacing 10E06`

10. Set the Base Data of Carrier-1 to PRBS.

    Command: `RFXPress:GENPurpose:CARRier1:BSEData PRBS`

11. Set the PRBS Base Data of Carrier-1 to 15.

    Command: `RFXPress:GENPurpose:CARRier1:BSEData:PRBS "15"`

12. Set the Modulation for the Carrier-1 to QPSK.

    Command: `RFXPress:GENPurpose:CARRier1:MODUlation "QPSK"`

13. Repeat Steps 10 to 12 for the remaining carriers, setting the Base Data to PRBS 21 and PRBS 7 respectively. Set the modulation to QPSK.

14. Set the Power Ramping for Carrier-1 to ON.

    Command: `RFXPress:GENPurpose:CARRier1:PWRRamping:TURNon ON`

15. Set the Power Ramping Function to Linear.

    Command:
    `RFXPress:GENPurpose:CARRier1:PWRRamping:FUNCtion LINEar`

16. Set the Power Ramping time to 100 ns.

    Command:
    `RFXPress:GENPurpose:CARRier1:PWRRamping:TIME 100E-09`

17. Add a symbol with the symbol value 0 in the power ramping table.

    Command:
    `RFXPress:GENPurpose:CARRier1:PWRRamping:ADDSymbol 0`

18. Select the added symbol with value 0.

    Command:
    `RFXPress:GENPurpose:CARRier1:PWRRamping:SELSymbol 0`

19. Set the Level parameter to 0.

    Command: `RFXPress:GENPurpose:CARRier1:PWRRamping:LEVEl 0`

20. Repeat steps 17 to 19 two more times, adding the following parameters: Symbol = 100 and Level = –60 dB Symbol = 200 and Level = 0 dB

21. Set the Carrier Leakage (I/Q Impairments) to ON for Carrier-2.

Command:
`RFXPress:GENPurpose:CARRier2:IQIMpairment:CARRleakage:TURNon ON`

22. Set the Carrier Leakage (I/Q Impairments) I Value to 5 for Carrier-2.

Command:
`RFXPress:GENPurpose:CARRier2:IQIMpairment:CARRleakage:IVALue 5`

23. Set the Carrier Leakage (I/Q Impairments) Q Value to 5 for Carrier-2.

Command:
`RFXPress:GENPurpose:CARRier2:IQIMpairment:CARRleakage:QVALue 5`

24. Set the Offset (Interference Addition) to ON for Carrier-3.

Command:
`RFXPress:GENPurpose:CARRier3:INTFaddition:OFFSet:TURNon ON`

25. Set the Offset (Interference Addition) frequency to 10 MHz for Carrier-3.

Command:
`RFXPress:GENPurpose:CARRier1:INTFaddition:OFFSet:FREQoffset 10E06`

26. Set the Automatic Waveform Length Calculation option to OFF.

Command: `RFXPress:COMPile:AWFLength OFF`

27. Set the Waveform Length to 500 K.

Command: `RFXPress:COMPile:WLENgth 500000`

28. Set the Waveform Length Type to Samples.

Command: `RFXPress:COMPile:WLTYpe SAMPles`

29. Set the Automatic Oversampling Calculation option to OFF.

Command: `RFXPress:COMPile:AOVErsampl OFF`

30. Set the Oversampling to 6.00.

Command: `RFXPress:COMPile:OVERsampl 6.00`

31. Compile.

Command: `RFXPress:COMPile`

Syntax and Commands

Command Syntax

For information on the Syntax Overview, Command and Query Structure, Clearing the Instrument, Command Entry, Parameter Types, SCPI Commands and Queries, refer to the *AWG5000B and AWG7000B Series Arbitrary Waveform Generators Programmer Manual*.

Command Groups

Launch Commands

Use the following command to launch RFXpress.

Table 2-1: Launch commands

Command	Description
RFXPress	Launches the RFXpress application.
RFXPress:SELApp	Sets or returns the currently selected application.

File Commands

Use the following commands to do the framework related operations.

Table 2-2: File commands

Command	Description
RFXPress:RFSFile:LOAD	Loads the specified .rfs file.
RFXPress:RFSFile:SAVE	Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected.
RFXPress:RSTDefault	Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

Table 2-3: Data file commands

Command	Description
RFXPress:RFDFile:LOAD	Loads the waveform contained in the specified .rfd file in to the waveform list.
RFXPress:RFDFile:SAVE	Saves the currently selected waveform in the waveform list to a .rfd file.
RFXPress:RFDFile:SELEct	Selects the specified waveform in the waveform list.

Table 2-4: Import from file commands

Command	Description
RFXPress:IMPOrtfile:BASEband	Sets or returns the import file baseband status.
RFXPress:IMPOrtfile:DATAtype	Sets or returns the import file data type selection.
RFXPress:IMPOrtfile:FORMat	Sets or returns the import file format selection for .txt and .csv files.
RFXPress:IMPOrtfile:IMPOrt	Imports the specified file.
RFXPress:IMPOrtfile:OVERwrite	Sets or returns the import file overwrite status.
RFXPress:IMPOrtfile:TYPE	Set or returns the import file type filter.

Compile Settings Commands

Use the following commands to set the compile settings parameters.

Table 2-5: Compile settings commands

Command	Description
RFXPress:COMPile	Compiles to generate waveforms.
RFXPress:COMPile:CORRection:CHFour	Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHONe	Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHTHree	Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHTWo	Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:FNAMe	Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.
RFXPress:COMPile:ADJWrap	Enables and disables wrap-around.
RFXPress:COMPile:AOVErsampl	Sets or returns the auto oversampling calculation option.
RFXPress:COMPile:AWFLength	Sets or returns the auto waveform length calculation option.
RFXPress:COMPile:CPASend	Sets the compile and send option.
RFXPress:COMPile:ICHAnnel	Sets or returns the I channel (the number of channels depends on the instrument).
RFXPress:COMPile:IINVert	Sets or returns the I Invert status.
RFXPress:COMPile:IQNOrmfact	Sets or returns the normalization/division factor in the compile settings for IQ.
RFXPress:COMPile:IWFMname	Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ.
RFXPress:COMPile:NORMmode	Sets or returns the normalization mode in compile settings.
RFXPress:COMPile:OVERsampl	Sets or returns the oversampling.
RFXPress:COMPile:QCHAnnel	Sets or returns the Q channel (the number of channels depends on the instrument).
RFXPress:COMPile:QINVert	Sets or returns Q Invert.
RFXPress:COMPile:QWFMname	Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ.
RFXPress:COMPile:RFCHannel	Sets or returns the RF channel.
RFXPress:COMPile:RFNOrmfact	Sets or returns the normalization/division factor in the compile settings for IF/RF signals.
RFXPress:COMPile:RFWFmname	Sets or returns the IF/RF waveform name in the compile settings when the signal format is IF/RF.

Table 2-5: Compile settings commands (cont.)

Command	Description
RFXPress:COMPile:SIGFormat	Sets or returns the signal format in RFXpress.
RFXPress:COMPile:WLENgth	Sets or returns the waveform length.
RFXPress:COMPile:WLTYpe	Sets or returns the waveform length type.

Generic Signal: Setup Commands

Use the following commands to set the setup parameters for generic signals.

Table 2-6: Generic signal setup commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:ALPHa	Sets or returns the Alpha/(B*T) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:MODFreq	Sets or returns the modulating frequency for PM for carrier >n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.
RFXPress:GENPurpose:CARRier<n>:AMPLitude	Sets or returns the amplitude of carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:BBOFfset	Sets or returns the baseband offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:FILE	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PATTern	Sets or returns the user-defined file for File Base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS	Sets or returns the PRBS type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:IPOLynomial	Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial	Sets or returns the user-defined PRBS polynomial expression of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister	Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CHBRipple	Sets or returns the Chebyshev ripple for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CODing	Sets or returns the coding for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CONLen	Sets or returns the convolution length for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FILTer	Sets or returns the filter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FREQuency	Sets the carrier frequency of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg	Sets or returns the file sample data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAMe	Sets or returns the File Samples file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat	Sets or returns the file sample format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE	Sets or returns the file sample mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate	Sets or returns the file sampling rate for carrier <n>.

Table 2-6: Generic signal setup commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg	Sets or returns the file symbol data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAMe	Sets or returns the file symbol file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat	Sets or returns the file symbol format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:KAISer	Sets or returns the Kaiser parameter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation	Sets the modulation of a carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq	Sets or returns the modulating frequency for AM for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex	Sets or returns the AM modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex	Sets or returns the ASK modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation	Sets or returns the frequency deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq	Sets or returns the modulating frequency for FM for carrier <n>
RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation	Sets or returns the FSK peak deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue	Sets or returns the 'n' value for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:PHROtation	Sets or returns the phase rotation for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation	Sets or returns the phase deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:STATe	Sets or returns the state of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:SYMBrate	Sets or returns the symbol rate for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:WINDow	Sets or returns the window for carrier <n>.
RFXPress:GENPurpose:CARType	Sets or returns the carrier mode.
RFXPress:GENPurpose:DELCarrier	Deletes the specified carrier from the carrier table.

Generic Signal: Multi-Carrier Settings Commands

Use the following commands to set parameters for multi-carrier generic signals.

Table 2-7: Multi-carrier commands

Command	Description
RFXPress:GENPurpose:ADDCarrier	Adds 'n' carriers in the carrier table.
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPath	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Table 2-7: Multi-carrier commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPath	Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath	Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon	Sets or returns the “Turn On” status of multipath settings for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:ANCHor	Sets or returns the carrier as anchor carrier in the multi-carrier table.
RFXPress:GENPurpose:DELAllcarr	Deletes all carriers from the carrier table.
RFXPress:GENPurpose:MLTCarrier:BSEFreq	Sets or returns the multi-carrier base frequency.
RFXPress:GENPurpose:MLTCarrier:BWIDth	Sets or returns the multi-carrier bandwidth.
RFXPress:GENPurpose:MLTCarrier:CARSpacing	Sets or returns the multi-carrier carrier spacing.
RFXPress:GENPurpose:MLTCarrier:CENFrequency	Sets or returns the multi-carrier center frequency.
RFXPress:GENPurpose:MLTCarrier:INIOffset	Sets or returns the multi-carrier initial offset.
RFXPress:GENPurpose:MLTCarrier:OPTion	Sets or returns the multi-carrier option.
RFXPress:GENPurpose:MLTCarrier:PHSShift	Sets or returns the multi-carrier phase shift.
RFXPress:GENPurpose:MLTCarrier:RNDPhase	Sets or returns the multi-carrier phase as random or not.

Generic Signal: Multipath Commands

Use the following commands to set multipath parameters for generic signals.

Table 2-8: Multipath commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPath	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPath	Deletes a path with the specified delay in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath	Sets or returns the currently selected path in multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon	Sets or returns the “Turn On” status of multipath settings for carrier <n>.

Generic Signal: Hopping Commands

Use the following commands to set hopping parameters for generic signals.

Table 2-9: Hopping impairment commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:ADD	Adds the hop frequency in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing	Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:DELEte	Deletes the hop/frequency entries in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency	Sets or returns the frequency in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode	Sets or returns the frequency mode in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset	Sets or returns the frequency offset in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime	Sets or returns the “time in hop” in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPersecond	Sets or returns the hops per second for carrier <n>.

Table 2-9: Hopping impairment commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod	Sets or returns the hopping time method for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:SYMPerhop	Sets or returns the symbols per hop for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq	Sets or returns the hop maximum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq	Sets or returns the hop minimum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern	Sets or returns the hop frequency pattern for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS	Sets or returns the PRBS type in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:POLYnomial	Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:SREGister	Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude	Sets or returns the relative amplitude in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx	Sets or returns the frequency index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx	Sets or returns the hop index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol	Sets or returns the start symbol in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon	Sets or returns the random hopping “Turn On” status for carrier <n>.

Generic Signal: Power Ramping Commands

Use the following commands to set power ramping commands.

Table 2-10: Power ramping commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol	Adds a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:DELSymbol	Deletes a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCtion	Sets or returns the power ramp function for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEl	Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>.

Table 2-10: Power ramping commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDExtend	Sets or returns the periodic extend in power ramp for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol	Sets or returns the currently selected symbol in power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBol	Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME	Sets or returns the time in power ramping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon	Sets or returns the “Turn On” status of power ramping settings for carrier <n>.

Generic Signal: I/Q Impairment Commands

Use the following commands to set I/Q impairment parameters for generic signals.

Table 2-11: I/Q impairment commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:IVALue	Sets or returns the I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue	Sets or returns the Q value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon	Sets or returns the “Turn On” status of Carrier Leakage for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH1Val	Sets or returns the channel 1 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH2Val	Sets or returns the channel 2 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val	Sets or returns the channel 3 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val	Sets or returns the channel 4 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon	Sets or returns the “Turn On” status of hardware skew for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:IQIMbalance	Sets or returns the IQ imbalance value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:TURNon	Sets or returns the “Turn On” status of IQ Imbalance for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQSWap:TURNon	Sets or returns the “Turn On” status of IQ Swap for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA2k	Sets or returns the AMAM2k value for carrier <n>.

Table 2-11: I/Q impairment commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k	Sets or returns the AMPM2k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon	Sets or returns the “Turn On” status of nonlinear distortion for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:DEGRees	Sets or returns the quadrature error value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon	Sets or returns the “Turn On” status of quadrature error for carrier <n>.

Generic Signal: Distortion Addition Commands

Use the following commands to set distortion addition parameters for generic signals.

Table 2-12: Distortion addition commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k	Sets or returns the AMAM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k	Sets or returns the AMPM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype	Sets or returns the amplifier type settings for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMItlevel	Sets or returns the amplifier type limiting level for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:OPERatingpt	Sets or returns the amplifier type operating point for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon	Sets or returns the "Turn On" status of amplifier distortion settings for carrier <n>.

Generic Signal: Interference Addition Commands

Use the following commands to set interference addition parameters for generic signals.

Table 2-13: Interference addition commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:BANDwidth	Sets or returns the additive noise bandwidth value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:RFWAveform	Sets or returns the RF waveform file name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:EBNValue	Sets or returns the additive noise Eb/No value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect	Sets or returns the of additive noise input mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:SNRValue	Sets or returns the additive noise SNR value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon	Sets or returns the “Turn On” status of additive noise for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:FREQoffset	Sets or returns the frequency offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon	Sets or returns the “Turn On” status of offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat	Sets or returns the signal format selected for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:IWAVeform	Sets or returns the I waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:QWAVeform	Sets or returns the Q waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf	Sets or returns the interference method selection for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon	Sets or returns the “Turn On” status of signal addition for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARRoffset	Sets or returns the sinusoidal interference carrier offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVAlue	Sets or returns the sinusoidal interference C/I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon	Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>.

Generic Signal: Sub-Carrier Modulation Commands

Use the following commands to set sub-carrier modulation parameters for generic signals.

Table 2-14: Sub-carrier modulation commands

Command	Description
RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex	Sets or returns the AM modulation index for sub-carrier modulation.
RFXPress:GENPurpose:SUBCarrmod:CARRfreq	Sets or returns the carrier frequency in sub-carrier modulation.
RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation	Sets or returns the frequency deviation in sub-carrier modulation.
RFXPress:GENPurpose:SUBCarrmod:MODUlation	Sets or returns the modulation type in sub-carrier modulation.
RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation	Sets or returns the phase deviation in sub-carrier modulation.
RFXPress:GENPurpose:SUBCarrmod:TURNon	Sets or returns the sub-carrier modulation “Turn On” status.

Generic Signal: S-Parameter Commands

Use the following commands to set S-Parameter options for generic signals.

Table 2-15: S-Parameter commands

Command	Description
RFXPress:GENPurpose:SPARameter:FBWMode	Sets or returns the filter bandwidth mode in S-parameter.
RFXPress:GENPurpose:SPARameter:FILE<n>:ENABle	Sets or returns the status of the S-parameter file <n>.
RFXPress:GENPurpose:SPARameter:FILE<n>:NAME	Sets or returns the file name of the S-parameter file <n>.
RFXPress:GENPurpose:SPARameter:FILTer:BWIDth	Sets or returns the filter bandwidth in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:DATType	Sets or returns the four-port data type in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:DIFFential:LAYout	Sets or returns the differential layout in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXMInus	Sets or returns the single ended Rx– selection in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXPLus	Sets or returns the single ended Rx+ selection in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXMInus	Sets or returns the single ended Tx– selection in S-parameter.
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXPLus	Sets or returns the single ended Tx+ selection in S-parameter.
RFXPress:GENPurpose:SPARameter:INVErt	Sets or returns the Apply Inversion parameter in S-parameter.
RFXPress:GENPurpose:SPARameter:MODE	Sets or returns the S-parameter mode.

Instrument Control

Use the following command for instrument control.

Table 2-16: Instrument control commands

Command	Description
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName	Sets the waveform to a specified AWG channel.

Radar: Pulse Train Settings

Use the following commands for pulse train settings.

Table 2-17: Pulse train settings commands

Command	Description
RFXPress:RADAr:PULTrain:ADDElement	Adds a pulse or dead-time to the pulse train table. To add a pulse, use “PULSE”. To add a dead-time, use “DEAD TIME”.
RFXPress:RADAr:PULTrain:INSElement	Inserts a new pulse or dead-time in the pulse train table.
RFXPress:RADAr:PULTrain:SELEct	Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.
RFXPress:RADAr:PULTrain:DELEte	Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.
RFXPress:RADAr:PULTrain:TYPE?	Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.
RFXPress:RADAr:PULTrain:ANCHor	Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.
RFXPress:RADAr:PULTrain:COUNt?	Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

Radar: Add Pulse Group

Use the following commands for adding pulse groups.

Table 2-18: Radar add pulse commands

Command	Description
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:TURNon	Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:SELAll	Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

Radar: Pulse Envelope Group Settings

Use the following commands for pulse envelope settings.

Table 2-19: Radar pulse envelope commands

Command	Description
RFXPress:RADAr:PULSe:PENVelope:SHAPe	Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:CUSTomfile	Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.
RFXPress:RADAr:PULSe:PENVelope:TIME:STARtvalue	Sets or returns the pulse envelope start time value for the currently selected pulse group.
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:VALUe	Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:PERCentage	Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:VALUe	Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:PERCentage	Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:TIME:OFFTime	Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:WIDTh:VALUe	Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:WIDTh:POWEr	Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:SAMPlerate	Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:CAROffset	Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.
RFXPress:RADAr:PULSe:PENVelope:BBOFfset	Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

Command	Description
RFXPress:RADAr:PULSe:PENVelope:RELAmplitude	Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVelope:REPEat	Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Radar: Carrier Settings

Use the following commands for carrier settings.

Table 2-20: Radar command

Command	Description
RFXPress:RADAr:CARRier:MAGNitude	Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.
RFXPress:RADAr:CARRier:AMPLitude	Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.
RFXPress:RADAr:CARRier:FREQuency	Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.
RFXPress:RADAr:CARRier:COHErent	Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

Radar: Antenna Scanning

Use the following commands for antenna scanning.

Table 2-21: Radar antenna scanning commands

Command	Description
RFXPress:RADAr:PULSe:ANTEnna:BEAM:FILE	Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to “User Defined” before using this command.
RFXPress:RADAr:PULSe:ANTEnna:TURNon	Sets or returns the “Turn On” status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE	Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

Table 2-21: Radar antenna scanning commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:ANTEnna:BEAM:WIDTh	Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
RFXPress:RADAr:PULSe:ANTEnna:MRAValue [1]	Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
RFXPress:RADAr:PULSe:ANTEnna:SCANrate	Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.
RFXPress:RADAr:PULSe:ANTEnna:TBEAring	Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

Radar: Multipath

Use the following commands for multipath settings.

Table 2-22: Radar multipath commands

Command	Description
RFXPress:RADAr:PULSe:MULTipath:TURNon	Sets or returns the “Turn On” status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:MULTipath:ADDPath	Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:SELPath	Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:DELAy	Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

Table 2-22: Radar multipath commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MULTipath:AMPLitude	Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:PHASe	Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:DELPath	Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Radar: I/Q Impairments

Use the following commands for I/Q impairments settings.

Table 2-23: Radar I/Q impairments commands

Command	Description
RFXPress:RADAr:IQIMpairment:IQSWap:TURNon	Sets or returns the “Turn On” status of IQ Swap.
RFXPress:RADAr:IQIMpairment:IQIMbalance:TURNon	Sets or returns the “Turn On” status of IQ Imbalance.
RFXPress:RADAr:IQIMpairment:IQIMbalance:IQIMbalance	Sets or returns the IQ imbalance value.
RFXPress:RADAr:IQIMpairment:QUADerror:TURNon	Sets or returns the “Turn On” status of quadrature error.
RFXPress:RADAr:IQIMpairment:QUADerror:DEGRees	Sets or returns the quadrature error degrees value.
RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon	Sets or returns the “Turn On”status of carrier leakage.
RFXPress:RADAr:IQIMpairment:CARRleakage:IVALue	Sets or returns the carrier leakage I value.
RFXPress:RADAr:IQIMpairment:CARRleakage:QVALue	Sets or returns the carrier leakage Q value.
RFXPress:RADAr:IQIMpairment:HWSKew:TURNon	Sets or returns the “Turn On” status of hardware skew.
RFXPress:RADAr:IQIMpairment:HWSKew:CH1Val	Sets or returns the channel 1 hardware skew value.
RFXPress:RADAr:IQIMpairment:HWSKew:CH2Val	Sets or returns the channel 2 hardware skew value.
RFXPress:RADAr:IQIMpairment:HWSKew:CH3Val	Sets or returns the channel 3 hardware skew value.
RFXPress:RADAr:IQIMpairment:HWSKew:CH4Val	Sets or returns the channel 4 hardware skew value.

Radar: Interference Addition

Use the following commands for interference addition settings.

Table 2-24: Radar interference addition commands

Command	Description
RFXPress:RADAr:INTFaddition:NOISe:TURNon	Sets or returns the “Turn On” status of Interference Addition Noise.
RFXPress:RADAr:INTFaddition:NOISe:SNRValue	Sets or returns the Interference Addition Noise SNR value.
RFXPress:RADAr:INTFaddition:NOISe:BANDwidth	Sets or returns the Interference Addition Noise bandwidth value.
RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon	Sets or returns the signal addition “Turn On” status.
RFXPress:RADAr:INTFaddition:SIGNaladd:SIGFormat	Sets or returns the signal format selected.
RFXPress:RADAr:INTFaddition:SIGNaladd:VIAIntf	Sets or returns the interference method selection.
RFXPress:RADAr:INTFaddition:SIGNaladd:IWAVeform	Sets or returns the I waveform file name.
RFXPress:RADAr:INTFaddition:SIGNaladd:QWAVeform	Sets or returns the Q waveform file name.
RFXPress:RADAr:INTFaddition:SIGNaladd:RFWAveform	Sets or returns the RF waveform file name.

Radar: Pulse Impairments

Use the following commands for pulse impairment settings.

Table 2-25: Radar pulse impairment commands

Command	Description
RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon	Sets or returns the “Turn On” status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype	Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation	Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either “Uniform” or “Gaussian” before using this command.
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDThtype	Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDEviation	Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”. Set the pulse impairments jitter width type to either “Uniform” or “Gaussian”.

Table 2-25: Radar pulse impairment commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon	Sets or returns the “Turn On” status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp	Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVSHoot	Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue	Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency	Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Radar: Pulse hopping

Use the following commands for pulse hopping settings.

Table 2-26: Radar pulse hopping commands

Command	Description
RFXPress:RADAr:PULSe:HOPPing:ADDHop	Adds a new hop to the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:DELHop	Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Table 2-26: Radar pulse hopping commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:HOPPing:OFFSet	Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:RELAmplitude	Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:REPEat	Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:SELHop	Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:TURNon	Sets or returns the “Turn On” status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Radar: Pulse Staggered PRI

Use the following commands for pulse staggered PRI settings.

Table 2-27: Radar pulse staggered PRI commands

Command	Description
RFXPress:RADAr:PULSe:STAGpri:ADDPri	Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command. The number of PRI deviations that can be added depends upon the pulse group’s repeat value.
RFXPress:RADAr:PULSe:STAGpri:DELPri	Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to “User Defined” before using this command.
RFXPress:RADAr:PULSe:STAGpri:DEVIation	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

Table 2-27: Radar pulse staggered PRI commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:STAGpri:REPEat	Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to “User Defined” before using this command.
RFXPress:RADAr:PULSe:STAGpri:SELPri	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.
RFXPress:RADAr:PULSe:STAGpri:SLOPe	Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to “Ramp” before using this command.
RFXPress:RADAr:PULSe:STAGpri:TURNon	Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:STAGpri:TYPE	Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

Radar: Pulse modulation

Use the following commands for pulse modulation settings.

Table 2-28: Radar pulse modulation commands

Command	Description
RFXPress:RADAr:PULSe:MODUlation	Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAMe	Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:DURAtion	Sets or returns the duration for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset	Sets or returns the frequency offset for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.

Table 2-28: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE	Sets or returns the barker code in the Biphase Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphase Coded Pulse modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep	Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange	Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFficient	Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder	Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset	Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOffset	Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs	Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:INIStep	Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:STEPs	Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:STPSize	Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.

Table 2-28: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:USDCodes:ADDN [1]	Adds 'n' user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DELN [1]	Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DURAtion [1]	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:PHASe [1]	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep [1]	Sets or returns the currently selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
RFXPress:GENPurpose:CARRier<n>:PHASe	Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.
RFXPress:RADAr:PULSe:MODUlation:FRANk:CODElength	Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:ADD	Adds 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:DELN	Deletes 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength	Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.

Table 2-28: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength	Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength	Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength	Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME	Sets or returns the status of “Same symbols for all pulses” for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBols	Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt	Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOwns	Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:ADDN	Adds ‘n’ user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:DELN	Deletes ‘n’ user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Table 2-28: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:DELN	Deletes 'n' user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep	Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

[1] **This command has been deprecated; however, it is still supported for backward compatibility.**

Command Descriptions

RFXPress (No Query Form)

Launches the RFXpress application.

Group Launch

Syntax
```
RFXPress
```

Examples `RFXPRESS` launches the RFXpress application.

RFXPress:COMPile (No Query Form)

Compiles to generate waveforms.

Group Compile settings

Syntax
```
RFXPress:COMPile
```

Examples `RFXPRESS:COMPILE` compiles a waveform.

RFXPress:COMPile:ADJWrap

Enables and disables wrap-around.

Group Compile settings

Syntax
```
RFXPress:COMPile:ADJWrap {<NR1>|OFF|ON}
RFXPress:COMPile:ADJWrap?
```

Arguments `Boolean`

Returns `Boolean`

Examples

`RFXPRESS:COMPILE:ADJWRAP 1` enables adjust wrap-around.

`RFXPRESS:COMPILE:ADJWRAP?` disables the adjust wrap-around status

RFXPress:COMPile:AOVErsampl

Sets or returns the auto oversampling calculation option.

Group

Compile settings

Syntax

```
RFXPress:COMPile:AOVErsampl {<NR1>|OFF|ON}
RFXPress:COMPile:AOVErsampl?
```

Related Commands

RFXPress:COMPile:OVERsampl

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:COMPILE:AOVERSAMPL 1` enables the auto oversampling calculation.

`RFXPRESS:COMPILE:AOVERSAMPL?` returns the auto oversampling calculation selection.

RFXPress:COMPile:AWFLength

Sets or returns the auto waveform length calculation option.

Group

Compile settings

Syntax

```
RFXPress:COMPile:AWFLength {<NR1>|OFF|ON}
RFXPress:COMPile:AWFLength?
```

Related Commands

RFXPress:COMPile:WLENgth

RFXPress:COMPile:WLTYpe

Arguments

`Boolean`

Returns Boolean

Examples RFXPRESS:COMPILE:AWFLENGTH 1 enables the auto waveform length calculation.

RFXPRESS:COMPILE:AWFLENGTH? returns the auto waveform length calculation selection.

RFXPress:COMPile:CORRection:CHFour

Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax
```
RFXPress:COMPile:CORRection:CHFour {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHFour?
```

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:CORRECTION:CHFOUR 1 applies correction on channel 4.

RFXPRESS:COMPILE:CORRECTION:CHFOUR? returns the apply correction status on channel 4.

RFXPress:COMPile:CORRection:CHONe

Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax

```
RFXPress:COMPile:CORRection:CHONe {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHONe?
```

Arguments

Boolean

Returns

Boolean

Examples

RFXPRESS:COMPILE:CORRECTION:CHONE 1 applies correction on channel 1.

RFXPRESS:COMPILE:CORRECTION:CHONE? returns the apply correction status on channel 1.

RFXPress:COMPile:CORRection:CHTHree

Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group

Compile settings

Syntax

```
RFXPress:COMPile:CORRection:CHTHree {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHTHree?
```

Arguments

Boolean

Returns

Boolean

Examples

RFXPRESS:COMPILE:CORRECTION:CHTHREE 1 applies correction on channel 3.

RFXPRESS:COMPILE:CORRECTION:CHTHREE? returns the apply correction status on channel 3.

RFXPress:COMPile:CORRection:CHTWo

Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax
```
RFXPress:COMPile:CORRection:CHTWo {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHTWo?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:COMPILE:CORRECTION:CHTWO 1` applies correction on channel 2.

`RFXPRESS:COMPILE:CORRECTION:CHTWO?` returns the apply correction status on channel 2.

RFXPress:COMPile:CORRection:FNAMe

Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax
```
RFXPress:COMPile:CORRection:FNAMe
RFXPress:COMPile:CORRection:FNAMe?
```

Arguments String

Returns String

Examples `RFXPRESS:COMPILE:CORRECTION:FNAME "E:\Test.rfc"` sets the correction file name to "E:\Test.rfc".

`RFXPRESS:COMPILE:CORRECTION:FNAME?` returns the correction file name.

RFXPress:COMPile:CPASend

Sets the compile and send option. When set to true, the command compiles and send the waveforms to AWG. When set to false, the command only compiles the waveform.

Group Compile settings

Syntax
```
RFXPress:COMPile:CPASend {<NR1>|OFF|ON}
RFXPress:COMPile:CPASend?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:COMPILE:CPASEND 1` compiles and sends the waveform to the AWG.

`RFXPRESS:COMPILE:CPASEND?` returns the compile and send option.

RFXPress:COMPile:ICHAnnel

Sets or returns the I channel (the number of channels depends on the instrument). This parameter can be set only when the signal format mode is IQ.

Group Compile settings

Syntax
```
RFXPress:COMPile:ICHAnnel
RFXPress:COMPile:ICHAnnel?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments `CHONe, CHTWo, CHTHree, CHFOur`

Returns `CHONe, CHTWo, CHTHree, CHFOur`

Examples `RFXPRESS:COMPILE:ICHANNEL CHTWo` sets the I channel to Channel 2.

`RFXPRESS:COMPILE:ICHANNEL?` returns the I channel.

RFXPress:COMPile:IINVert

Sets or returns the I Invert status.

Group Compile settings

Syntax
```
RFXPress:COMPile:IINVert {<NR1>|OFF|ON}
RFXPress:COMPile:IINVert?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:COMPILE:IINVERT 1` enables I Invert.

`RFXPRESS:COMPILE:IINVERT?` returns the I Invert status.

RFXPress:COMPile:IQNOrmfact

Sets or returns the normalization/division factor in the compile settings for IQ

Group Compile settings

Syntax
```
RFXPress:COMPile:IQNOrmfact
RFXPress:COMPile:IQNOrmfact?
```

Arguments Real

Returns Real

Examples `RFXPRESS:COMPILE:IQNORMFACT 1.5` sets the IQ Normalization factor to 1.5.

`RFXPRESS:COMPILE:IQNORMFACT?` returns the normalization or division factor.

RFXPress:COMPile:IWFMname

Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ.

Group Compile settings

Syntax
```
RFXPress:COMPile:IWFMname
RFXPress:COMPile:IWFMname?
```

Arguments String

Returns String

Examples
```
RFXPRESS:COMPILE:IWFMNAME "Waveform_I"
RFXPRESS:COMPILE:IWFMNAME?
```

RFXPress:COMPile:NORMmode

Sets or returns the normalization mode in compile settings.

Group Compile settings

Syntax
```
RFXPress:COMPile:NORMmode
RFXPress:COMPile:NORMmode?
```

Arguments AUTOnorm, MANualnorm

Returns AUTOnorm, MANualnorm

Examples RFXPRESS:COMPILE:NORMMODE AUTOnorm sets the normalization mode to Auto.

RFXPRESS:COMPILE:NORMMODE? returns the normalization mode.

RFXPress:COMPile:OVERsampl

Sets or returns the oversampling. This parameter can be set only when automatic oversampling calculation is set to "Off".

Group Compile settings

Syntax

```
RFXPress:COMPile:OVERsampl
RFXPress:COMPile:OVERsampl?
```

Related Commands RFXPress:COMPile:AOVErsampl

Arguments Real

Returns Real

Examples RFXPRESS:COMPILE:OVERSAMPL 10 sets the oversampling to 10.

RFXPRESS:COMPILE:OVERSAMPL? returns the oversampling.

RFXPress:COMPile:QCHAnnel

Sets or returns the Q channel (the number of channels depends on the instrument).

Group Compile settings

Syntax

```
RFXPress:COMPile:QCHAnnel
RFXPress:COMPile:QCHAnnel?
```

Arguments CHONe, CHTWo, CHTHree, CHFOur

Returns CHONe, CHTWo, CHTHree, CHFOur

Examples RFXPRESS:COMPILE:QCHANNEL CHTWo sets the Q channel to Channel 2.

RFXPRESS:COMPILE:QCHANNEL? returns the Q channel.

RFXPress:COMPile:QINVert

Sets or returns Q Invert.

Group Compile settings

Syntax

```
RFXPress:COMPile:QINVert {<NR1>|OFF|ON}
RFXPress:COMPile:QINVert?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:COMPILE:QINVERT 1` sets Q Invert.

`RFXPRESS:COMPILE:QINVERT?` returns Q Invert.

RFXPress:COMPile:QWFMname

Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ. Sets or returns the Q waveform name in compile settings.

Group Compile settings

Syntax
```
RFXPress:COMPile:QWFMname
RFXPress:COMPile:QWFMname?
```

Arguments `String`

Returns `String`

Examples `RFXPRESS:COMPILE:QWFMNAME` "`Waveform_Q`" sets the Q waveform name to Waveform_Q.

`RFXPRESS:COMPILE:QWFMNAME?` sets the Q waveform name.

RFXPress:COMPile:RFCHannel

Sets or returns the RF channel. This parameter can be set only when the signal format mode is IF/RF. The number of channels depends on the instrument.

Group Compile settings

Syntax
```
RFXPress:COMPile:RFCHannel
RFXPress:COMPile:RFCHannel?
```

Arguments CHONe, CHTWo, CHTHree, CHFOur

Returns CHONe, CHTWo, CHTHree, CHFOur

Examples RFXPRESS:COMPILE:RFCHANNEL CHTWo set the RF channel to Channel 2.

RFXPRESS:COMPILE:RFCHANNEL? returns the RF channel.

RFXPress:COMPile:RFNOrmfact

Sets or returns the normalization/division factor in the compile settings for IF/RF signals.

Group Compile settings

Syntax
```
RFXPress:COMPile:RFNOrmfact
RFXPress:COMPile:RFNOrmfact?
```

Arguments Real

Returns Real

Examples RFXPRESS:COMPILE:RFNORMFACT 1.5 sets the IF/RF normalization factor to 1.5.

RFXPRESS:COMPILE:RFNORMFACT? returns the IF/RF normalization factor.

RFXPress:COMPile:RFWFmname

Sets or returns the IF/RF waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IF/RF.

Group Compile settings

Syntax
```
RFXPress:COMPile:RFWFmname
RFXPress:COMPile:RFWFmname?
```

Arguments `String`

Returns `String`

Examples `RFXPRESS:COMPILE:RFWFMNAME "Waveform1"` sets the IF/RF waveform name to Waveform1.

`RFXPRESS:COMPILE:RFWFMNAME?` returns the IF/RF waveform name.

RFXPress:COMPile:SIGFormat

Sets or returns the signal format in RFXpress.

Group Compile settings

Syntax
```
RFXPress:COMPile:SIGFormat
RFXPress:COMPile:SIGFormat?
```

Arguments `IQ, IFRF`

Returns `IQ, IFRF`

Examples `RFXPRESS:COMPILE:SIGFORMAT IFRF` sets the signal format to IF/RF.

`RFXPRESS:COMPILE:SIGFORMAT?` returns the signal format.

RFXPress:COMPile:WLENgth

Sets or returns the waveform length. This parameter can be set only when the automatic waveform length calculation is set to "Off". When the waveform type is 'TIME', specify the waveform length in seconds.

Group Compile settings

Syntax
```
RFXPress:COMPile:WLENgth
RFXPress:COMPile:WLENgth?
```

Related Commands RFXPress:COMPile:WLTYpe

RFXPress:COMPile:AWFLength

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:COMPILE:WLENGTH 20000` sets the waveform length to 20000.

`RFXPRESS:COMPILE:WLENGTH?` returns the waveform length.

RFXPress:COMPile:WLTYpe

Sets or returns the waveform length type. This parameter can be set only when the automatic waveform length calculation is set to "Off".

Group Compile settings

Syntax
```
RFXPress:COMPile:WLTYpe
RFXPress:COMPile:WLTYpe?
```

Related Commands RFXPress:COMPile:WLENgth

RFXPress:COMPile:AWFLength

Arguments `SAMPles, SYMBols, TIME`

Returns `SAMPles, SYMBols, TIME`

Examples `RFXPRESS:COMPILE:WLTYPE SAMPles` sets the waveform length type as samples.

`RFXPRESS:COMPILE:WLTYPE?` returns the waveform length type.

RFXPress:GENPurpose:ADDCarrier (No Query Form)

Adds 'n' carriers in the carrier table.

Group Generic signal: Multi-carrier settings

Syntax `RFXPress:GENPurpose:ADDCarrier`

Arguments `Integer`

Examples `RFXPRESS:GENPURPOSE:ADDCARRIER 2` adds two carriers.

RFXPress:GENPurpose:ANCHor

Sets or returns the carrier as anchor carrier in the multi-carrier table. This command is applicable only in multi-carrier mode.

Group Generic signal: Multi-carrier settings

Syntax
```
RFXPress:GENPurpose:ANCHor
RFXPress:GENPurpose:ANCHor?
```

Related Commands RFXPress:GENPurpose:CARType

Arguments `Boolean`

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:ANCHOR 3` sets carrier 3 as the anchor carrier.

`RFXPRESS:GENPURPOSE:ANCHOR?` returns the anchor carrier.

RFXPress:GENPurpose:CARRier<n>:ALPHa

Sets or returns the Alpha/(B*T) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:ALPHa
RFXPress:GENPurpose:CARRier<n>:ALPHa?
```

Arguments `Real`

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:ALPHA 0.20 sets the Alpha/(B*T) for carrier 1 to 0.20.

RFXPress:GENPurpose:CARRier1:ALPHa? returns the Alpha/(B*T) for carrier 1.

RFXPress:GENPurpose:CARRier<n>:AMPLitude

Sets or returns the amplitude of carrier <n>, where <n> is the carrier number. This parameter input value is dBm when the signal format is IF/RF and is V_{rms} when the signal format is IQ.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:AMPLitude
RFXPress:GENPurpose:CARRier<n>:AMPLitude?
```

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE 3.1 sets the amplitude of carrier 1 to 3.1 dBm.

RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE? returns the amplitude of carrier 1.

RFXPress:GENPurpose:CARRier<n>:BBOFfset

Sets or returns the baseband offset for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the signal format is IQ.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:BBOFfset
RFXPress:GENPurpose:CARRier<n>:BBOFfset?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET 1e6 sets the baseband offset for carrier 1 to 1 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET? returns the baseband offset for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData

Sets or returns the base data type of carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:BSEData
RFXPress:GENPurpose:CARRier<n>:BSEData?
```

Arguments ALLZero, ALLOne, PRBS, PATTern, FILE

Returns ALLZero, ALLOne, PRBS, PATTern, FILE

Examples RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA PRBS sets the base data of carrier 1 to PRBS.

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA? returns the base data type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:FILE

Sets or returns the user-defined file for File Base data type of carrier <n>, where <n> is the carrier number. The file path must be given and should be present in the host which has RFXpress loaded.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:FILE
RFXPress:GENPurpose:CARRier<n>:BSEData:FILE?
```

Arguments

String

Returns

String

Examples

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:FILE "C:\Userfile.txt" sets the user defined file as "C:\Userfile.txt" for carrier 1.

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:FILE? returns the base data file for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PATTern

Sets or returns the Pattern Data for Pattern Base data type of carrier <n>, where <n> is the carrier number. Only binary patterns are accepted.

Group

Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:PATTern
RFXPress:GENPurpose:CARRier<n>:BSEData:PATTern?
```

Arguments

String

Returns

String

Examples

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN "101010101" sets the pattern data as "101010101".

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN? returns the base data binary pattern for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS

Sets or returns the PRBS type of carrier <n>, where <n> is the carrier number.

Group

Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS?
```

Arguments

`String`

The string values are:

`7, 9, 15, 16, 21, 23, User-defined`

Returns

`String`

The string values returned are:

`7, 9, 15, 16, 21, 23, User-defined`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS "User-defined"` sets the PRBS type of carrier 1 to "User-defined".

`RFXPRESS:GENPURPOSE:CARRIER1BSEDATA:PRBS?` returns the PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:IPOLynomial

Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>, where <n> is the carrier number.

Group

Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
IPOLynomial
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
IPOLynomial?
```

Arguments

`String`

Valid polynomial expressions are accepted.

Returns

`String`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X20+X15+1"` sets the initial polynomial for the user-defined PRBS to "X20+x15+1".

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:IPOLYNOMIAL? returns the initial polynomial expression of user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial

Sets or returns the user-defined PRBS polynomial expression of carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
POLYnomial
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
POLYnomial?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS

Arguments String

Valid polynomial expressions are accepted.

Returns String

Examples RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X15+X14+1" sets the polynomial for the user-defined PRBS to "X15+x14+1".

RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:POLYNOMIAL? returns the polynomial expression of user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister

Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>, where <n> is the carrier number. The length of the pattern depends upon the polynomial expression.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
SREGister
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:
SREGister?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS

Arguments `String`

Only binary patterns are accepted.

Returns `String`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:SREGISTER "101010101010101"` sets the shift register bit pattern to "101010101010101" for the polynomial expression of "X15+x14+1".

`RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:SREGISTER?` returns the Shift register binary pattern user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:CHBRipple

Sets or returns the Chebyshev ripple for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Chebyshev Ripple.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:CHBRipple
RFXPress:GENPurpose:CARRier<n>:CHBRipple?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:WINDow

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE 14.3` sets the Chebyshev ripple for carrier 1 to 14.3 .

`RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE?` returns the Chebyshev ripple for carrier 1.

RFXPress:GENPurpose:CARRier<n>:CODing

Sets or returns the coding for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:CODing
RFXPress:GENPurpose:CARRier<n>:CODing?
```

Arguments `String`

The string values are:

`None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential`

Returns `String`

The string values returned are:

`None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:CODING "Gray"` sets carrier 1 coding to Gray.

`RFXPRESS:GENPURPOSE:CARRIER1:CODING?` returns carrier 1 coding.

RFXPress:GENPurpose:CARRier<n>:CONLen

Sets or returns the convolution length for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:CONLen
RFXPress:GENPurpose:CARRier<n>:CONLen?
```

Arguments `Integer`

Returns `Integer`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:CONLEN 11` sets the convolution length for carrier 1 to 11 symbols.

`RFXPRESS:GENPURPOSE:CARRIER1:CONLEN?` returns the convolution length for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K 0.02` sets the AMAM3k for carrier 1 to 0.02 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K?` returns the AMAM3k for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k

Sets or returns the AMAM5k value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K 0.02 sets the AMAM5k for carrier 1 to 0.02 dB.

RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K? returns the AMAM5k for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K 0.02 sets the AMPM3k for carrier 1 to 0.02 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K? returns the AMPM3k for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k

Sets or returns the AMPM5k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K 0.02` sets the AMPM5k for carrier 1 to 0.02 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K?` returns the AMPM5k for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Sets or returns the amplifier type settings for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
AMPLtype
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
AMPLtype?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

Arguments `String`

The string values are:

Non-linear

Hard Limiting

Soft Limiting

Returns String

The string values returned are:

Non-linear

Hard Limiting

Soft Limiting

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE "Hard Limiting" sets the amplifier type for the carrier 1 to Hard Limiting.

RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE? returns the amplifier type for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMItlevel

Sets or returns the amplifier type limiting level for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
LIMItlevel
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
LIMItlevel?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLFIER:LIMITINGLEVEL 0.6 sets the limiting level for carrier 1 to 0.6.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLFIER:LIMITINGLEVEL?` returns the limiting level for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:OPERatingpt

Sets or returns the amplifier type operating point for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
OPERatingpt
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
OPERatingpt?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT 0.09` sets the operating point for carrier 1 to 0.09.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT?` returns the operating point for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon

Sets or returns the "Turn On" status of amplifier distortion settings for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
TURNon?
```

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON 1 sets the amplifier distortion status for carrier 1 to On.

RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON? returns the amplifier distortion status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FILTer

Sets or returns the filter for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FILTer
RFXPress:GENPurpose:CARRier<n>:FILTer?
```

Arguments String

The string values are:

No Filter

Rectangular

Raised Cosine

Root Raised Cosine

Gaussian(Dirac Delta)

Gaussian(rectangular)

Triangular

Edge

Half Sine

User-Defined

Returns String

The string values returned are:

No Filter

```
Rectangular
Raised Cosine
Root Raised Cosine
Gaussian(Dirac Delta)
Gaussian(rectangular)
Triangular
Edge
Half Sine
User-Defined
```

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:FILTER "Raised Cosine"` sets the carrier 1 filter to Raised Cosine.

`RFXPRESS:GENPURPOSE:CARRIER1:FILTER?` returns the carrier 1 filter.

RFXPress:GENPurpose:CARRier<n>:FREQuency

Sets the carrier frequency of carrier <n>, where <n> is the carrier number. This is applicable only if the signal format is IF/RF.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:FREQuency
RFXPress:GENPurpose:CARRier<n>:FREQuency?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY 20e6` sets the frequency of carrier 2 to 20 MHz.

`RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY?` returns the frequency of carrier 2.

RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg

Sets or returns the file sample data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg
RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `IQ, QI, IONLy, QONLy`

Returns `IQ, QI, IONLy, QONLy`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORG IQ` sets file sample data organization for carrier 1 to I/Q.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORG?` returns the file sample data organization for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAMe

Sets or returns the File Samples file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAMe
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAMe?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `String`

Returns `String`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME "E:\Test.txt"` sets the file sample file name for carrier 1 to "E:\Test.txt".

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME?` returns the file sample for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat

Sets or returns the file sample format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `ASCIi, FLOAt, DOUBle`

Returns `ASCIi, FLOAt, DOUBle`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT DOUBle` sets the file sample format for carrier 1 to Double.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT?` returns the file sample format for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE

Sets or returns the file sample mode for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE
RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `INTErnal, EXTErnal`

Returns `INTErnal, EXTErnal`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE EXTErnal` sets the file sample mode for carrier 1 to External.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE?` returns the file sample mode for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate

Sets or returns the file sampling rate for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate
RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE 16` sets the file sampling rate for carrier 1 to 16 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE?` returns the file sampling rate for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg

Sets or returns the file symbol data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments IQ, QI, IONLy, QONLy

Returns IQ, QI, IONLy, QONLy

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG QI sets the file symbol data organization for carrier 1 to Q/I.

RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG? returns the file symbol data organization for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAMe

Sets or returns the file symbol file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAMe
RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAMe?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments String

Returns String

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME "E:\Test1.txt" sets the file symbol file name for carrier 1 to "E:\Test1.txt".

RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME? returns the file symbol file name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat

Sets or returns the file symbol format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat
RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `ASCIi, FLOAt, DOUBle`

Returns `ASCIi, FLOAt, DOUBle`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT ASCIi` sets the file symbol format for carrier 1 to ascii.

`RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT?` returns the file symbol format for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:ADD (No Query Form)

Adds the hop frequency in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is Pseudo-Random, Range.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:ADD
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:ADD` adds a hop entry in hopping table/list for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing

Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is "Pseudo-Random, Range" or "Pseudo-Random, Avoid List".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING 40e6` sets the hop channel spacing in hopping for carrier 1 to 40 MHz .

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING?` returns the channel spacing in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:DELEte (No Query Form)

Deletes the hop/frequency entries in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is "Pseudo-Random, Range".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:DELEte
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

Arguments `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:DELETE 5` deletes the hop entry 5 in hopping table/list for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency

Sets or returns the frequency in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is Absolute. This parameter is not accessible when the hop pattern is set as "Pseudo-Random, Range".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY 12e6` sets the frequency in the hopping table for carrier 1 to 12 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY?` returns the frequency in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode

Sets or returns the frequency mode in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The frequency mode is dependent on the hop pattern and the signal format mode. The frequency mode cannot be set to Offset for "Pseudo-Random, List" and "Pseudo-Random, Avoid List" when the signal format is IF/RF. The

frequency mode cannot be set to Absolute for “Pseudo-Random, List” and “Pseudo-Random, Avoid List” when the signal format is IQ This command cannot be used when the hop pattern selected is “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

RFXPress:COMPile:SIGFormat

Arguments `ABSolute, OFFSet`

Returns `ABSolute, OFFSet`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE ABSOLUTE` sets the frequency mode in hopping for carrier 1 to Absolute.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE?` returns the frequency mode in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset

Sets or returns the frequency offset in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is offset. This parameter is not accessible when the hop pattern is set as “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET 12e6` sets the frequency offset in the hopping table for carrier 1 to 12 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET?` returns the frequency offset in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime

Sets or returns the "time in hop" in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is "Custom Table" and hop time method is set as "Time in hop, variable".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME 23` sets the "time in hop" in the hopping table for carrier 1 to 23 ms.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME?` returns the "time in hop" in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPersecond

Sets or returns the hops per second for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "hops per second, fixed".

Group Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
HOPPersecond
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
HOPPersecond?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND 2000` sets the hops per second for carrier 1 to 2000.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND?` returns the hops per second for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod

Sets or returns the hopping time method for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The hop time method is dependent on the hop pattern selected. Only "Symbols per hop, fixed" and "Hops per second, fixed" are valid when the hop pattern set is other than “Custom Table”.

Group Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
METHod
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
METHod?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments

`String`

The string values are:

`Symbols per hop, fixed`

`Hops per second, fixed`

`Symbol Index, each hop`

`Time in hop, variable`

Returns

`String`

The string values returned are:

`Symbols per hop, fixed`

`Hops per second, fixed`

`Symbol Index, each hop`

`Time in hop, variable`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD "Symbols per hop, fixed"` sets the hop time method for carrier 1 to "Symbols per hop, fixed".

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD?` returns the hop time method for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:SYMPerhop

Sets or returns the symbols per hop for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "Symbols per hop, fixed".

Group

Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
SYMPerhop
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:
SYMPerhop?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod

Arguments Integer

Returns Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPERHOP 200 sets the symbols per hop for carrier 1 to 200.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPERHOP? returns the symbols per hop for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq

Sets or returns the hop maximum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is "Pseudo-Random, Range" or "Pseudo-Random, Avoid List".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ 100e6 sets the hop maximum frequency for carrier 1 to 100 MHz .

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ? returns the hop maximum frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq

Sets or returns the hop minimum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

Group Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ 20e6` sets the hop minimum frequency for carrier 1 to 20 MHz .

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ?` returns he hop minimum frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Sets or returns the hop frequency pattern for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>.

Group Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `String`

The string values are:

`Custom Table`

`Pseudo-Random, Range`

`Pseudo-Random, List`

`Pseudo-Random, Avoid List`

Returns `String`

The string values returned are:

`Custom Table`

`Pseudo-Random, Range`

`Pseudo-Random, List`

`Pseudo-Random, Avoid List`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN "Custom Table"` sets the hop frequency pattern for carrier 1 to “Custom Table”.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN?` returns the hop frequency pattern for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS

Sets or returns the PRBS type in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `String`

The string values are:

7

9

15

16

20

21

23

User-defined

Returns String

The string values returned are:

7

9

15

16

20

21

23

User-defined

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS "7" sets the PRBS type in the hopping for carrier 1 to PRBS 7.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS? returns the PRBS type in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:POLYnomia

Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You can set this parameter only when the PRBS type is User Defined.

Group Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:
USRDefined:POLYnomial
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:
USRDefined:POLYnomial?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS

Arguments

`String`

Returns

`String`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL "X15+x14+1"` sets the polynomial for user-defined PRBS in hopping for carrier 1 to "X15+x14+1".

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL?` returns the polynomial for user-defined PRBS in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:SREGister

Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You cans set this parameter only when the PRBS type is User Defined.

Group

Generic signal: Hopping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:
USRDefined:SREGister
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:
USRDefined:SREGister?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER 10 sets the shift register value for user-defined PRBS in hopping for carrier 1 to 10.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER? returns he shift register value for user-defined PRBS in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude

Sets or returns the relative amplitude in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is "Custom Table".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE -12 sets the relative amplitude in the hopping table for carrier 1 to –12 dB.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE? returns the relative amplitude in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx

Sets or returns the frequency index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is other than “Custom Table”.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX 3` sets the frequency index selection in hopping for carrier 1 to 3.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX?` returns the frequency index selection in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx

Sets or returns the hop index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table”.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX 5` sets the hop index selection in hopping for carrier 1 to 5.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX?` returns the hop index selection in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol

Sets or returns the start symbol in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is "Custom Table" and hop time method is set as "Symbol Index, each hop".

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL 101` sets the start symbol in the hopping table for carrier 1 to 101.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL?` returns the start symbol in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon

Sets or returns the random hopping “Turn On” status for carrier <n>, where <n> is the carrier number.

Group Generic signal: Hopping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON 1` sets the random hopping status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON?` returns the random hopping status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:BANDwidth

Sets or returns the additive noise bandwidth value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
BANDwidth
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
BANDwidth?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon

Arguments Real

Returns Real

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH 1` sets the additive noise bandwidth value for carrier 1 to 1 Hz.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH?` returns the additive noise bandwidth value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:EBNValue

Sets or returns the additive noise Eb/No value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
EBNValue
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
EBNValue?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE 1` sets the additive noise Eb/No value for carrier 1 to 1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE?` returns the additive noise Eb/No value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect

Sets or returns the of additive noise input mode for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
INPUtselect
```

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
INPUtselect?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon

Arguments SNR, EBNO

Returns SNR, EBNO

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT SNR sets the status of carrier 1 Additive Noise input select to SNR.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT? returns the status of Additive Noise input select for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:SNRValue

Sets or returns the additive noise SNR value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
SNRValue
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
SNRValue?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE 1 sets the additive noise SNR value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE? returns the additive noise SNR value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon

Sets or returns the “Turn On” status of additive noise for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
TURNon?
```

Arguments Boolean

Returns Boolean

Examples
```
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON
1
```
sets the status of additive noise for carrier 1 to “On”.

```
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON?
```
returns the status of additive noise for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:FREQoffset

Sets or returns the frequency offset value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:
FREQoffset
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:
FREQoffset?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon

Arguments Real

Returns Real

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET 1` sets the frequency offset value for carrier 1 to 1 Hz.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET?` returns the frequency offset value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon

Sets or returns the "Turn On" status of offset for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon?
```

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON 1` sets the status of offset for carrier 1 to "On".

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON?` returns the status of offset for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:IWAVeform

Sets or returns the I waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
IWAVeform
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
IWAVeform?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat

Arguments `String`

Returns `String`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM "waveform_I"` sets the I waveform name for carrier 1 to Waveform_I.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM?` returns the I waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:QWAVeform

Sets or returns the Q waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
QWAVeform
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
QWAVeform?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat

Arguments `String`

Returns `String`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM "Waveform_Q"` sets the Q waveform name for carrier 1 to Waveform_Q.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM?` returns the Q waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:RFWAveform

Sets or returns the RF waveform file name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
RFWAveform
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
RFWAveform?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat

Arguments `String`

Returns `String`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM "Wavefrom_RF"` sets the RF waveform name for carrier 1 to Waveform_RF.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM?` returns the RF waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat

Sets or returns the signal format selected for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
SIGFormat
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
SIGFormat?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

Arguments `IQ, IFRF`

Returns `IQ, IFRF`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT IQ` sets the status of format selection for carrier 1 to IQ.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT?` returns the status of signal addition format selection for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

Sets or returns the “Turn On” status of signal addition for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON 1` sets the status of signal addition for carrier 1 to "On".

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON?` returns the status of signal addition for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf

Sets or returns the interference method selection for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
VIAIntf
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
VIAIntf?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon

Arguments

`SOFTware, HARDware`

Returns

`SOFTware, HARDware`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF SOFTWARE` sets the status of signal addition interference method for carrier 1 to Software.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF?` returns the status of signal addition interference method for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARRoffset

Sets or returns the sinusoidal interference carrier offset value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:
CARRoffset
```

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:
CARRoffset?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET 1 sets the sinusoidal interference carrier offset value for carrier 1 to 1 Hz.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET? returns the sinusoidal interference carrier offset value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVAlue

Sets or returns the sinusoidal interference C/I value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax

```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVAlue
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:
CIVAlue?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE 1 sets the sinusoidal interference C/I value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE? returns the sinusoidal interference C/I value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon

Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax
```
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON 1` sets the status of sinusoidal interference for carrier 1 to “On”.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON?` returns the status of sinusoidal interference for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:IVALue

Sets or returns the I value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
IVALue
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
IVALue?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon

Arguments Real

Returns Real

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.01` sets the I value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE?` returns the I value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue

Sets or returns the Q value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
QVALue
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
QVALue?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.01` sets the Q value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE?` returns the Q value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon

Sets or returns the “Turn On” status of carrier leakage for carrier <n>, where <n> is the carrier number.

Group

Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:
TURNon?
```

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the Carrier Leakage status for carrier 1 to On.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the Carrier Leakage status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH1Val

Sets or returns the channel 1 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH1Val
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH1Val?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL 0.1 sets the channel 1 value for carrier 1 to 0.1 s.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the channel 1 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH2Val

Sets or returns the channel 2 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH2Val
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH2Val?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL 0.1
sets the channel 2 value for carrier 1 to 0.1%.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL?
returns the channel 2 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val

Sets or returns the channel 3 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL 0.1
sets the channel 3 value for carrier 1 to 0.1%.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL?
returns the channel 3 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val

Sets or returns the channel 4 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL 0.1` sets the channel 4 value for carrier 1 to 0.1%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL?` returns the channel 4 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon

Sets or returns the "Turn On" status of hardware skew for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON 1` sets the hardware skew status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON?` returns the hardware skew status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:
IQIMbalance
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:
IQIMbalance?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:TURNon

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09` sets the IQ imbalance value for carrier 1 to 0.09%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE?` returns the IQ imbalance value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:TURNon

Sets or returns the "Turn On" status of IQ Imbalance for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:
TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQIMbalance:
TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON 1` sets the IQ imbalance status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON?` returns the IQ imbalance turn on status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQSWap:TURNon

Sets or returns the “Turn On” status of IQ Swap for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQSWap:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:IQSWap:TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON 1` sets the IQ swap status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON?` returns the IQ swap turn on status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA2k

Sets or returns the AMAM2k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA2k
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
AMA2k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Arguments Real

Returns Real

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K 0.1` sets the AMAM2k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K?` returns the AMAM2k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
AMA3k?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K 0.1` sets the AMAM3k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K?` returns the AMAM3k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k

Sets or returns the AMPM2k value for carrier <n>, where <n> is the carrier number.

Group

Generic signal: I/Q impairments

Syntax

```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
AMP2k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K 0.1 sets the AMPM2k value degree for carrier 1 to 0.1 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K? returns the AMPM2k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
AMP3k?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K 0.1 sets the AMPM3k value degree for carrier 1 to 0.1 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K? returns the AMPM3k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Sets or returns the “Turn On” status of nonlinear distortion for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:
TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON 1` sets the nonlinear distortion status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON?` returns the nonlinear distortion status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:DEGRees

Sets or returns the quadrature error value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:
DEGRees
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:
DEGRees?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES 0.01` sets the quadrature error degree for carrier 1 to 0.01 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES?` returns the quadrature error for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon

Sets or returns the “Turn On” status of quadrature error for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax
```
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:
TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON 1` sets the Quadrature Error status for the carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON?` returns the Quad Error status for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:KAISer

Sets or returns the Kaiser parameter for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Kaiser.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:KAISer
RFXPress:GENPurpose:CARRier<n>:KAISer?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:WINDow

Arguments Real

Returns Real

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:KAISER 5` sets the Kaiser parameter for carrier 1 to 5 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:KAISER?` returns the Kaiser parameter for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation

Sets the modulation of a carrier <n>, where <n> is the carrier number.

Group

Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MODUlation
RFXPress:GENPurpose:CARRier<n>:MODUlation?
```

Arguments

`String`

The string values are:

`No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)`

Returns

`String`

The string values returned are:

`No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION "QPSK"` sets the modulation of carrier 1 to QPSK.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION?` returns the modulation of carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq

Sets or returns the modulating frequency for AM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODFreq?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ 14e6` sets the modulating frequency for carrier 1 to 14 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ?` returns the modulating frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex

Sets or returns the AM modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODIndex
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODIndex?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `Real`

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX 3.1 sets the AM modulation index for carrier 1 to 3.1%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX? returns the AM modulation index for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex

Sets or returns the ASK modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to ASK modulation.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex
RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX 12.2 sets the ASK modulation index for carrier 1 to 12.2%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX? returns the ASK modulation index for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation

Sets or returns the frequency deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:
FRQDeviation
```

```
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:
FRQDeviation?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION 200e6 sets the frequency modulation for carrier 1 to 200 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION? returns the symbol rate for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq

Sets or returns the modulating frequency for FM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:
MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:
MODFreq?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples FXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ 12e6 sets the modulating frequency for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ? returns the modulating frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation

Sets or returns the FSK peak deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to either 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:
PKDEviation
RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:
PKDEviation?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION 12.5e6` sets the FSK peak deviation for carrier 1 to 12.5 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION?` returns the FSK peak deviation for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue

Sets or returns the 'n' value for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments `Real`

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE 8 sets the 'n' value of NDPSK modulation for carrier 1 to 8.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE? returns the 'n' value of NDPSK modulation for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:PHROtation

Sets or returns the phase rotation for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:PHROtation
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:PHROtation?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION 20.3 sets the phase rotation for NDPSK modulation for carrier 1 to 20.3 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION? returns the phase rotation for NDPSK modulation for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:MODFreq

Sets or returns the modulating frequency for PM for carrier >n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
MODFreq?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ 15e6` sets the modulating frequency for PM the carrier 1 to 15 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ?` returns the modulating frequency for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation

Sets or returns the phase deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

Group Generic signal: Setup

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
PHEDeviation
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
PHEDeviation?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MODUlation

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION 16.2` sets the phase deviation for carrier 1 to 16.2 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION?` returns the phase deviation for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPath (No Query Form)

Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPath
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

Arguments `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:ADDPATH 2` adds two paths in the multipath table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude

Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE -0.01` sets the amplitude for the currently selected path for the carrier 1 to –0.01 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE?` returns the amplitude for the currently selected path for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy

Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.

Group Generic signal: Multipath

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAY 0.01` sets the delay for the currently selected path for carrier 1 to 0.01 symbols.

`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAY?` returns the delay for the currently selected path for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPath (No Query Form)

Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax

```
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPath
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

Arguments Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELPATH 2 deletes the second path in the multipath table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe

Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.

Group Generic signal: Multipath

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASE 0.01 sets the phase value for the currently selected path for carrier 1 to 0.01 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASE? returns the phase value for the currently selected path for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath

Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:SELPATH 0.01 selects the path with delay of 0.01 symbols in multipath table for the carrier 1.

RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:SELPATH? returns the currently selected path in multipath table for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon

Sets or returns the "Turn On" status of multipath settings for carrier <n>, where <n> is the carrier number.

Group Generic signal: Multipath

Syntax
```
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon?
```

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:TURNON 1 sets the multipath status for the carrier 1 to On.

RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:TURNON? returns the multipath status for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:PHASe

Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.

Group Radar: Pulse modulation

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PHASe
RFXPress:GENPurpose:CARRier<n>:PHASe?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments `Real`

Returns `Real`

Examples `RFXPress:GENPurpose:CARRier1:PHASe 90` sets the phase shift of carrier 1 to 90 degrees.

`RFXPress:GENPurpose:CARRier1:PHASe?` returns the phase shift of carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol (No Query Form)

Adds a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:ADDSYMBOL 5` adds the symbol 5 in the power ramp table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:DELSymbol (No Query Form)

Deletes a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax `RFXPress:GENPurpose:CARRier<n>:PWRRamping:DELSymbol`

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments `Integer`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:DELSYMBOL 5` deletes the symbol 5 from the power ramping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCtion

Sets or returns the power ramp function for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCtion
RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCtion?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments `NONE, LINear, COSIne`

Returns `NONE, LINear, COSIne`

Examples

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION LINEAR` sets the power ramp function for carrier 1 to Linear.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION?` returns the power ramp function for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEl

Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

Group

Generic signal: Power ramping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEl
RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEl?
```

Related Commands

RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol

Arguments

`Real`

Returns

`Real`

Examples

`RFXPress:GENPurpose:CARRier1:PWRRamping:LEVEl 12.5` sets the level for the currently selected symbol for carrier 1 to 12.5 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:LEVEL?` returns the level of the currently selected symbol for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDExtend

Sets or returns the periodic extend in power ramp for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group

Generic signal: Power ramping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDExtend
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDExtend?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND 1` sets the periodic extend in power ramp for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND?` returns the periodic extend in power ramp for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol

Sets or returns the currently selected symbol in power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax

```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL 5` selects the symbol 5 in the power ramping table for carrier 1.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL?` returns the currently selected symbol in the power ramping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBol

Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

Group Generic signal: Power ramping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBol
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBol?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol

Arguments `Integer`

Returns `Intger`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL 21` sets the symbol value for the currently selected symbol for carrier 1 to 21.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL?` returns the symbol value for the currently selected symbol for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME

Sets or returns the time in power ramping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME?
```

Related Commands RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME 100e-6` sets the time in power ramping for carrier 1 to 100 µs.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME?` returns the time in power ramping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon

Sets or returns the "Turn On" status of power ramping settings for carrier <n>, where <n> is the carrier number.

Group Generic signal: Power ramping

Syntax
```
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON 1` sets the power ramping status for carrier 1 to On.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON?` returns the power ramping status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:STATe

Sets or returns the state of carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:STATe {<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:STATe?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:GENPURPOSE:CARRIER3:STATE 0` sets the state of carrier 3 to Off.

`RFXPRESS:GENPURPOSE:CARRIER3:STATE?` returns the state of carrier 3.

RFXPress:GENPurpose:CARRier<n>:SYMBrate

Sets or returns the symbol rate for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:SYMBrate
RFXPress:GENPurpose:CARRier<n>:SYMBrate?
```

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:CARRIER1:SYMBRATE 20e6` sets the symbol rate for carrier 1 to 20 MHz.

`RFXPress:GENPurpose:CARRier1:SYMBrate?` returns the symbol rate for carrier 1.

RFXPress:GENPurpose:CARRier<n>:WINDow

Sets or returns the window for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARRier<n>:WINDow
RFXPress:GENPurpose:CARRier<n>:WINDow?
```

Arguments `String`

The string values are:

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

Returns String

The string values returned are:

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

Examples RFXPress:GENPurpose:CARRier1:WINDow "Triangular" sets the window of carrier 1 to Triangular.

RFXPress:GENPurpose:CARRier1:WINDow? returns the window of carrier 1.

RFXPress:GENPurpose:CARType

Sets or returns the carrier mode. This is used to set the carrier mode as Single or Multi Carrier.

Group Generic signal: Setup

Syntax
```
RFXPress:GENPurpose:CARType
RFXPress:GENPurpose:CARType?
```

Arguments SINGle MULTi

Returns SINGle MULTi

Examples RFXPRESS:GENPURPOSE:CARTYPE SINGle sets the carrier type to Single carrier.

RFXPRESS:GENPURPOSE:CARTYPE MULTi sets the carrier type to Multi-carrier.

RFXPRESS:GENPURPOSE:CARTYPE? returns the carrier type.

RFXPress:GENPurpose:DELAllcarr (No Query Form)

Deletes all carriers from the carrier table. This command is applicable only in multi-carrier mode.

Group Generic signal: Multi-carrier settings

Syntax `RFXPress:GENPurpose:DELAllcarr`

Related Commands RFXPress:GENPurpose:CARType

Examples `RFXPRESS:GENPURPOSE:DELALLCARR` deletes all the carriers from the carrier table.

RFXPress:GENPurpose:DELCarrier (No Query Form)

Deletes the specified carrier from the carrier table.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:DELCarrier`

Arguments `Integer`

Examples `RFXPRESS:GENPURPOSE:DELCARRIER 2` deletes carrier 2 from the table.

RFXPress:GENPurpose:MLTCarrier:BSEFreq

Sets or returns the multi-carrier base frequency. This parameter can be accessed only when the signal format is IF/RF.

Group Generic signal: Multi-carrier settings

Syntax
```
RFXPress:GENPurpose:MLTCarrier:BSEFreq
RFXPress:GENPurpose:MLTCarrier:BSEFreq?
```

Related Commands RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier[:STATe]

RFXPress:GENPurpose:MLTCarrier:OPTion

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ 11e6` sets the multi-carrier base frequency to 11 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ?` returns the multi-carrier base frequency.

RFXPress:GENPurpose:MLTCarrier:BWIDth

Sets or returns the multi-carrier bandwidth. This parameter can be accessed only when the signal format is IF/RF.

Group Generic signal: Multi-carrier settings

Syntax
```
RFXPress:GENPurpose:MLTCarrier:BWIDth
RFXPress:GENPurpose:MLTCarrier:BWIDth?
```

Related Commands RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier[:STATe]

RFXPress:GENPurpose:MLTCarrier:OPTion

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH 5e6` sets the multi-carrier bandwidth to 5 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH?` returns the multi-carrier bandwidth.

RFXPress:GENPurpose:MLTCarrier:CARSpacing

Sets or returns the multi-carrier carrier spacing.

Group Generic signal: Multi-carrier settings

Syntax

```
RFXPress:GENPurpose:MLTCarrier:CARSpacing
RFXPress:GENPurpose:MLTCarrier:CARSpacing?
```

Related Commands

RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier[:STATe]

RFXPress:GENPurpose:MLTCarrier:OPTion

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING 10e6` sets the multi-carrier carrier spacing to 10 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING?` returns the multi-carrier carrier spacing.

RFXPress:GENPurpose:MLTCarrier:CENFrequency

Sets or returns the multi-carrier center frequency. This parameter can be accessed only when the signal format is IF/RF.

Group

Generic signal: Multi-carrier settings

Syntax

```
RFXPress:GENPurpose:MLTCarrier:CENFrequency
RFXPress:GENPurpose:MLTCarrier:CENFrequency?
```

Related Commands

RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier[:STATe]

RFXPress:GENPurpose:MLTCarrier:OPTion

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY 12e6` sets the multi-carrier center frequency to 12 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY?` returns the multi-carrier center frequency.

RFXPress:GENPurpose:MLTCarrier:INIOffset

Sets or returns the multi-carrier initial offset. This parameter can be accessed only when the signal format is IQ.

Group Generic signal: Multi-carrier settings

Syntax

```
RFXPress:GENPurpose:MLTCarrier:INIOffset
RFXPress:GENPurpose:MLTCarrier:INIOffset?
```

Related Commands RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier[:STATe]

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET 20e6` sets the multi-carrier initial offset to 20 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET?` returns the multi-carrier initial offset.

RFXPress:GENPurpose:MLTCarrier:OPTion

Sets or returns the multi-carrier option. This command indicates if the group settings should be considered as Range frequency or Center frequency while adding multiple carriers. The Range and Center options are applicable only for IF/RF mode.

Group Generic signal: Multi-carrier settings

Syntax

```
RFXPress:GENPurpose:MLTCarrier:OPTion
RFXPress:GENPurpose:MLTCarrier:OPTion?
```

Related Commands RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier:CENFrequency

RFXPress:GENPurpose:MLTCarrier:BWIDth

RFXPress:GENPurpose:MLTCarrier:PHSShift

RFXPress:GENPurpose:MLTCarrier:RNDPhase

RFXPress:GENPurpose:MLTCarrier:BSEFreq

RFXPress:GENPurpose:MLTCarrier:CARSpacing

Arguments `CENTer, RANGe`

Returns `CENTer, RANGe`

Examples `RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION CENTer` sets the mulit-carrier option to Center.

`RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION?` returns the mulit-carrier option.

RFXPress:GENPurpose:MLTCarrier:PHSShift

Sets or returns the multi-carrier phase shift. This parameter can be accessed only when the signal format is IF/RF. If random phase is enabled, then that will take higher precedence.

Group Generic signal: Multi-carrier settings

Syntax
```
RFXPress:GENPurpose:MLTCarrier:PHSShift
RFXPress:GENPurpose:MLTCarrier:PHSShift?
```

Related Commands RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier:RNDPhase

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT 20` sets the multi-carrier phase shift to 20.

`RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT?` returns the multi-carrier phase shift.

RFXPress:GENPurpose:MLTCarrier:RNDPhase

Sets or returns the multi-carrier phase as random or not. This parameter can be accessed only when the signal format is IF/RF.

Group

Generic signal: Multi-carrier settings

Syntax

```
RFXPress:GENPurpose:MLTCarrier:RNDPhase {<NR1>|OFF|ON}
RFXPress:GENPurpose:MLTCarrier:RNDPhase?
```

Related Commands

RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier:PHSShift

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE 1` sets the multi-carrier phase to Random.

`RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE?` returns the multi-carrier phase status.

RFXPress:GENPurpose:MLTCarrier[:STATe]

Sets or returns the multi-carrier state as On/Off. This is used when adding more than one carrier at a time. Based on the state of this command, the other multi-carrier group settings commands are considered.

Group

Generic signal: Multi-carrier

Syntax

```
RFXPress:GENPurpose:MLTCarrier[:STATe] {<NR1>|OFF|ON}
RFXPress:GENPurpose:MLTCarrier[:STATe]?
```

Related Commands

RFXPress:GENPurpose:ADDCarrier

RFXPress:GENPurpose:MLTCarrier:OPTion

RFXPress:GENPurpose:MLTCarrier:CENFrequency

RFXPress:GENPurpose:MLTCarrier:BWIDth

RFXPress:GENPurpose:MLTCarrier:PHSShift

RFXPress:GENPurpose:MLTCarrier:RNDPhase

RFXPress:GENPurpose:MLTCarrier:BSEFreq

RFXPress:GENPurpose:MLTCarrier:CARSpacing

RFXPress:GENPurpose:MLTCarrier:INIOffset

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE] 1` sets the multi-carrier status to On.

`RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE]?` returns the multi-carrier status.

RFXPress:GENPurpose:SPARameter:FBWMode

Sets or returns the filter bandwidth mode in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group

Generic signal: S-Parameter

Syntax

```
RFXPress:GENPurpose:SPARameter:FBWMode
RFXPress:GENPurpose:SPARameter:FBWMode?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

Arguments

`AUTO, FULL, MANual`

Returns `AUTO, FULL, MANual`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE MANUAL` sets the filter bandwidth mode to Manual.

`RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE?` returns the filter bandwidth.

RFXPress:GENPurpose:SPARameter:FILE<n>:ENABle

Sets or returns the status of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FILE<n>:ENABle {<NR1>|OFF|ON}
RFXPress:GENPurpose:SPARameter:FILE<n>:ENABle?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:MODE

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE 1` sets the status of file 1 to On.

`RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE?` returns the status of file 1.

RFXPress:GENPurpose:SPARameter:FILE<n>:NAME

Sets or returns the file name of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FILE<n>:NAME
RFXPress:GENPurpose:SPARameter:FILE<n>:NAME?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:MODE

Arguments `String`

Returns `String`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME "E:\Test.s2p"` sets the file 1 name to "E:\Test.s2p".

`RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME?` returns the name of file 1.

RFXPress:GENPurpose:SPARameter:FILTer:BWIDth

Sets or returns the filter bandwidth in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the filter band width mode is set to Manual.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FILTer:BWIDth
RFXPress:GENPurpose:SPARameter:FILTer:BWIDth?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FBWMode

Arguments Real

Returns Real

Examples pRFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTH 2e9 sets the filter bandwidth to 2 GHz.

RFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTH? returns the filter bandwidth.

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Sets or returns the four-port data type in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the four-port file is selected.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FOURport:DATType
RFXPress:GENPurpose:SPARameter:FOURport:DATType?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

Arguments SNGEnded, DIFFerential

Returns SNGEnded, DIFFerential

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPE SNGENDED sets the four-port data type to Single-ended.

RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPE? returns the four-port data type.

RFXPress:GENPurpose:SPARameter:FOURport:DIFFential:LAYout

Sets or returns the differential layout in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be

accessed only when the S-parameter settings are turned on and the four-port data type is differential.

Group Generic signal: S-Parameter

Syntax

```
RFXPress:GENPurpose:SPARameter:FOURport:DIFFential:LAYout
RFXPress:GENPurpose:SPARameter:FOURport:DIFFential:LAYout?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Arguments `String`

The string values are:

`DC12, CD12`

DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

Returns `String`

The string values returned are:

`DC12, CD12`

DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

Examples

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT "DC12"` sets the differential layout of a four-port network to DC12. DC 12 corresponds to the Typical layout.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT?` returns the differential layout for a four-port network.

RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXMInus

Sets or returns the single ended Rx– selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXMInus
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXMInus?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXMINUS 4` sets the Rx– selection to 4.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXMINUS?` returns the Rx– selection.

RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXPLus

Sets or returns the single ended Rx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXPLus
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:RXPLus?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS 3` sets the Rx+ selection to 3.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS?` returns the Rx+ selection.

RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXMInus

Sets or returns the single ended Tx– selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXMInus
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXMInus?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS 2` sets the Tx– selection to 2.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS?` returns the Tx– selection.

RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXPLus

Sets or returns the single ended Tx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter

can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXPLus
RFXPress:GENPurpose:SPARameter:FOURport:SNGEnded:TXPLus?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

RFXPress:GENPurpose:SPARameter:FOURport:DATType

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS 1` sets the Tx+ selection to 1.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS?` returns the Tx+ selection.

RFXPress:GENPurpose:SPARameter:INVErt

Sets or returns the Apply Inversion parameter in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:INVErt {<NR1>|OFF|ON}
RFXPress:GENPurpose:SPARameter:INVErt?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:INVERT 1` sets the Apply Inversion parameter to On.

`RFXPRESS:GENPURPOSE:SPARAMETER:INVERT?` returns the status of the Apply Inversion parameter.

RFXPress:GENPurpose:SPARameter:MODE

Sets or returns the S-parameter mode. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group Generic signal: S-Parameter

Syntax
```
RFXPress:GENPurpose:SPARameter:MODE
RFXPress:GENPurpose:SPARameter:MODE?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

Arguments `NONCascading, CASCading`

Returns `NONCascading, CASCading`

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:MODE CASCADING` sets the S-parameter mode to Cascading.

`RFXPRESS:GENPURPOSE:SPARAMETER:MODE?` returns the S-parameter mode.

RFXPress:GENPurpose:SPARameter:TURNon

Sets or returns the S-parameter settings “TurnOn” status. The S-parameter settings are applicable only when the signal format set is IF/RF.

Group Generic Signal: S-Parameter

Syntax

```
RFXPress:GENPurpose:SPARameter:TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:SPARameter:TURNon?
```

Related Commands

RFXPress:COMPile:SIGFormat

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:GENPURPOSE:SPARAMETER:TURNON 1` enabled the S-parameter settings.

`RFXPRESS:GENPURPOSE:SPARAMETER:TURNON ?` returns the status of the S-parameter settings.

RFXPress:GENPurpose:SPARameter:TWOPort:SELEction

Sets or returns the two-port selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the two-port file is selected.

Group

Generic Signal: S-Parameter

Syntax

```
RFXPress:GENPurpose:SPARameter:TWOPort:SELEction
RFXPress:GENPurpose:SPARameter:TWOPort:SELEction?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SPARameter:TURNon

Arguments

`String`

The string values are:

`S11, S12, S21, S22`

Returns

`String`

The string values returned are:

`S11, S12, S21, S22`

Examples

`RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION "S12"` sets the two-port selection as "S12".

`RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION?` returns the two-port selection.

RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex

Sets or returns the AM modulation index for sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when sub-carrier modulation is set to AM.

Group

Generic signal: Sub-carrier modulation

Syntax

```
RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex
RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SUBCarrmod:TURNon

RFXPress:GENPurpose:SUBCarrmod:MODUlation

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX 21.3` sets the AM modulation index for sub-carrier modulation to 21.3%.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX?` returns the AM modulation index for sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:CARRfreq

Sets or returns the carrier frequency in sub-carrier modulation. The sub-carrier modulation settings is applicable only when the signal format set is IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

Group

Generic signal: Sub-carrier modulation

Syntax

```
RFXPress:GENPurpose:SUBCarrmod:CARRfreq
RFXPress:GENPurpose:SUBCarrmod:CARRfreq?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SUBCarrmod:TURNon

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ 2e9` sets the carrier frequency for sub-carrier modulation to 2 GHz.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ?` returns the carrier frequency for sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation

Sets or returns the frequency deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to FM.

Group

Generic signal: Sub-carrier modulation

Syntax

```
RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation
RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SUBCarrmod:TURNon

RFXPress:GENPurpose:SUBCarrmod:MODUlation

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION 20e6` sets the frequency deviation in sub-carrier modulation to 20 MHz.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION?` returns the frequency deviation in sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:MODUlation

Sets or returns the modulation type in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

Group

Generic signal: Sub-carrier modulation

Syntax

```
RFXPress:GENPurpose:SUBCarrmod:MODUlation
RFXPress:GENPurpose:SUBCarrmod:MODUlation?
```

Related Commands

RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SUBCarrmod:TURNon

Arguments

`String`

The string values are:

`AM, FM, PM`

Returns

`String`

The string values returned are:

`AM, FM, PM`

Examples

`RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION "AM"` sets the sub-carrier modulation type to AM.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION?` returns the sub-carrier modulation type.

RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation

Sets or returns the phase deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to PM.

Group Generic signal: Sub-carrier modulation

Syntax
```
RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation
RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation?
```

Related Commands RFXPress:COMPile:SIGFormat

RFXPress:GENPurpose:SUBCarrmod:TURNon

RFXPress:GENPurpose:SUBCarrmod:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIATION 15.3` sets the phase deviation in sub-carrier modulation to 15.3 degrees.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIATION?` returns the phase deviation in sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:TURNon

Sets or returns the sub-carrier modulation "Turn On" status. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

Group Generic signal: Sub-carrier modulation

Syntax
```
RFXPress:GENPurpose:SUBCarrmod:TURNon {<NR1>|OFF|ON}
RFXPress:GENPurpose:SUBCarrmod:TURNon?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments `Boolean`

Returns `Boolean`

Examples

`RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON 1` sets the status of sub-carrier modulation to On.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON?` returns the status of sub-carrier modulation.

RFXPress:IMPOrtfile:BASEband

Sets or returns the import file baseband status. Set the import file baseband status before importing any .iqt, .tiq files to set the imported waveforms as carrier baseband signals.

Group

Import from file

Syntax

```
RFXPress:IMPOrtfile:BASEband {<NR1>|OFF|ON}
RFXPress:IMPOrtfile:BASEband?
```

Related Commands

RFXPress:IMPOrtfile:TYPE

RFXPress:IMPOrtfile:DATAtype

RFXPress:IMPOrtfile:FORMat

RFXPress:IMPOrtfile:OVERwrite

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:IMPORTFILE:BASEBAND 1` sets the import file baseband status to On.

`RFXPRESS:IMPORTFILE:BASEBAND?` returns the currently set import file baseband status.

RFXPress:IMPOrtfile:DATAtype

Sets or returns the import file data type selection. The import file data type will have to be set before importing any file.

Group

Import from file

Syntax

```
RFXPress:IMPOrtfile:DATAtype
RFXPress:IMPOrtfile:DATAtype?
```

Related Commands

RFXPress:IMPOrtfile:TYPE

RFXPress:IMPOrtfile:FORMat

RFXPress:IMPOrtfile:OVERwrite

RFXPress:IMPOrtfile:BASEband

Arguments

The data type values are:

`I` - I data

`Q` - Q data

`RF` - IF/RF data

Returns

`I` - I data

`Q` - Q data

`RF` - IF/RF data

RFXPress:IMPOrtfile:FORMat

Sets or returns the import file format selection for .txt and .csv files. The import file format type will have to be set before importing any .txt or .csv file.

Group

Import from file

Syntax

```
RFXPress:IMPOrtfile:FORMat
RFXPress:IMPOrtfile:FORMat?
```

Related Commands

RFXPress:IMPOrtfile:TYPE

RFXPress:IMPOrtfile:DATAtype

RFXPress:IMPOrtfile:OVERwrite

RFXPress:IMPOrtfile:BASEband

Arguments

The various format type values are:

`TVOLt` – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLt – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

Returns

TVOLt – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLt – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

Examples

RFXPRESS:IMPORTFILE:FORMAT VOLT sets the import file format type to VOLT.

RFXPRESS:IMPORTFILE:FORMAT? returns the currently selected import file format type.

RFXPress:IMPOrtfile:IMPOrt (No Query Form)

Imports the specified file. Set the import file type filter, data type, data format, overwrite, and baseband status before importing any file into RFXpress. The file must exist and should be valid and readable.

Group

Import from file

Syntax

RFXPress:IMPOrtfile:IMPOrt

Related Commands

RFXPress:IMPOrtfile:TYPE

RFXPress:IMPOrtfile:DATAtype

RFXPress:IMPOrtfile:FORMat

RFXPress:IMPOrtfile:OVERwrite

RFXPress:IMPOrtfile:BASEband

Arguments

String

Examples

RFXPRESS:IMPORTFILE:IMPORT "C:\Data.iqt" imports the file "C:\Data.iqt".

RFXPress:IMPOrtfile:OVERwrite

Sets or returns the import file overwrite status. Set the import file overwrite status before importing any file.

Group Import from file

Syntax

```
RFXPress:IMPOrtfile:OVERwrite {<NR1>|OFF|ON}
RFXPress:IMPOrtfile:OVERwrite?
```

Related Commands RFXPress:IMPOrtfile:TYPE

RFXPress:IMPOrtfile:DATAtype

RFXPress:IMPOrtfile:FORMat

RFXPress:IMPOrtfile:BASEband

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:IMPORTFILE:OVERWRITE 1` sets the import file overwrite status to On.

`RFXPRESS:IMPORTFILE:OVERWRITE?` returns the currently set import file overwrite status.

RFXPress:IMPOrtfile:TYPE

Set and returns the import file type filter. Set the import file type before importing any file into RFXpress.

Group Import from file

Syntax

```
RFXPress:IMPOrtfile:TYPE
RFXPress:IMPOrtfile:TYPE?
```

Related Commands RFXPress:IMPOrtfile:DATAtype

RFXPress:IMPOrtfile:FORMat

RFXPress:IMPOrtfile:OVERwrite

RFXPress:IMPOrtfile:BASEband

Arguments The file type filter values for various file types which can be imported are:

`WAVE` - .wfm file

`IQT` - .iqt file

`TIQ` - .tiq file

`PAT` - .pat file

`TEKWfm` - Tekscope .wfm files

`ISF` - .isf file

`CSV` - .csv file

`TXT` - .txt file

`MAT` - .mat file

`ADS` - .txt file which contains data in Agilent ADS format

`VSA` - .csv file which contains data in Agilent VSA format

Returns `WAVE` - .wfm file

`IQT` - .iqt file

`TIQ` - .tiq file

`PAT` - .pat file

`TEKWfm` - Tekscope .wfm files

`ISF` - .isf file

`CSV` - .csv file

`TXT` - .txt file

`MAT` - .mat file

`ADS` - .txt file which contains data in Agilent ADS format

`VSA` - .csv file which contains data in Agilent VSA format

Examples `RFXPRESS:IMPORTFILE:TYPE MAT` sets the file type filter to import .mat files.

`RFXPRESS:IMPORTFILE:TYPE?` returns the currently selected import filter.

RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName

Sets the waveform to a specified AWG channel. Returns the waveform name which is set to a specified AWG channel. <n> is the channel number.

Group Instrument control

Syntax
```
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName?
```

Arguments `String`

Returns `String`

Examples `RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME "Wav1"` sets the waveform Wav1 to channel 2.

`RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME?` returns the waveform name set on channel 2.

RFXPress:RADAr:CARRier:AMPLitude

Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.

Group Radar: Carrier settings

Syntax
```
RFXPress:RADAr:CARRier:AMPLitude
RFXPress:RADAr:CARRier:AMPLitude?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:CARRIER:AMPLITUDE 1` sets the carrier amplitude to 1 V_{pp}.

`RFXPRESS:RADAR:CARRIER:AMPLITUDE?` returns the carrier amplitude.

RFXPress:RADAr:CARRier:COHErent

Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax
```
RFXPress:RADAr:CARRier:COHErent {<NR1>|OFF|ON}
RFXPress:RADAr:CARRier:COHErent?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:CARRIER:COHERENT 1` sets the coherent carrier status to On.

`RFXPRESS:RADAR:CARRIER:COHERENT?` returns the coherent carrier status.

RFXPress:RADAr:CARRier:FREQuency

Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax
```
RFXPress:RADAr:CARRier:FREQuency
RFXPress:RADAr:CARRier:FREQuency?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:CARRIER:FREQUENCY 100e06` sets the carrier frequency to 100 MHz.

RFXPRESS:RADAR:CARRIER:FREQUENCY? returns the carrier frequency.

RFXPress:RADAr:CARRier:MAGNitude

Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax
```
RFXPress:RADAr:CARRier:MAGNitude
RFXPress:RADAr:CARRier:MAGNitude?
```

Related Commands RFXPress:COMPile:SIGFormat

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:CARRIER:MAGNITUDE −20 sets the carrier magnitude to –20 dBm.

RFXPRESS:RADAR:CARRIER:MAGNITUDE? returns the carrier magnitude.

RFXPress:RADAr:INTFaddition:NOISe:BANDwidth

Sets or returns the Interference Addition Noise bandwidth value.

Group Radar: Interference addition

Syntax
```
RFXPress:RADAr:INTFaddition:NOISe:BANDwidth
RFXPress:RADAr:INTFaddition:NOISe:BANDwidth?
```

Related Commands RFXPress:RADAr:INTFaddition:NOISe:TURNon

Arguments Real

Returns Real

Examples

`RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH 0.1` sets the bandwidth value to 0.1 fs.

`RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH?` returns the bandwidth value.

RFXPress:RADAr:INTFaddition:NOISe:SNRValue

Sets or returns the Interference Addition Noise SNR value.

Group Radar: Interference addition

Syntax

```
RFXPress:RADAr:INTFaddition:NOISe:SNRValue
RFXPress:RADAr:INTFaddition:NOISe:SNRValue?
```

Related Commands RFXPress:RADAr:INTFaddition:NOISe:TURNon

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE –10` sets the Interference Addition Noise SNR value to –10 dB.

`RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE?` returns the Interference Addition Noise SNR value.

RFXPress:RADAr:INTFaddition:NOISe:TURNon

Sets or returns the "Turn On" status of Interference Addition Noise.

Group Radar: Interference addition

Syntax

```
RFXPress:RADAr:INTFaddition:NOISe:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:INTFaddition:NOISe:TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples

`RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON 1` sets the interference addition noise status to On.

`RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON?` returns the interference addition noise status.

RFXPress:RADAr:INTFaddition:SIGNaladd:IWAVeform

Sets or returns the I waveform file name.

Group Radar: Interference addition

Syntax

```
RFXPress:RADAr:INTFaddition:SIGNaladd:IWAVeform
RFXPress:RADAr:INTFaddition:SIGNaladd:IWAVeform?
```

Related Commands RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Arguments `String`

Returns `String`

Examples

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM "Waveform1_I"` sets the I waveform name to Waveform1_I.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM?` returns the I waveform file name.

RFXPress:RADAr:INTFaddition:SIGNaladd:QWAVeform

Sets or returns the Q waveform file name.

Group Radar: Interference addition

Syntax

```
RFXPress:RADAr:INTFaddition:SIGNaladd:QWAVeform
RFXPress:RADAr:INTFaddition:SIGNaladd:QWAVeform?
```

Related Commands RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Arguments `String`

Returns `String`

Examples `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM "Waveform1_Q"` sets the Q waveform name to Waveform1_Q.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM?` returns the Q waveform file name.

RFXPress:RADAr:INTFaddition:SIGNaladd:RFWAveform

Sets or returns the RF waveform file name.

Group Radar: Interference addition

Syntax
```
RFXPress:RADAr:INTFaddition:SIGNaladd:RFWAveform
RFXPress:RADAr:INTFaddition:SIGNaladd:RFWAveform?
```

Related Commands RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Arguments `String`

Returns `String`

Examples `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM "Waveform1_RF"` sets the RF waveform name to Waveform1_RF.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM?` returns the RF waveform file name.

RFXPress:RADAr:INTFaddition:SIGNaladd:SIGFormat

Sets or returns the signal format selected.

Group Radar: Interference addition

Syntax
```
RFXPress:RADAr:INTFaddition:SIGNaladd:SIGFormat
RFXPress:RADAr:INTFaddition:SIGNaladd:SIGFormat?
```

Related Commands RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Arguments `String`

The string values are:

`IQ`

`IFRF`

Returns `String`

The string values returned are:

`IQ`

`IFRF`

Examples `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT IQ` sets the signal format selection to IQ

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT?` returns the signal format selection.

RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Sets or returns the signal addition "Turn On" status.

Group Radar: Interference addition

Syntax
```
RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON 1` sets the status of signal addition settings to On.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON?` returns status of signal addition settings.

RFXPress:RADAr:INTFaddition:SIGNaladd:VIAIntf

Sets or returns the interference method selection.

Group Radar: Interference addition

Syntax
```
RFXPress:RADAr:INTFaddition:SIGNaladd:VIAIntf
RFXPress:RADAr:INTFaddition:SIGNaladd:VIAIntf?
```

Related Commands RFXPress:RADAr:INTFaddition:SIGNaladd:TURNon

Arguments `String`

The string values are:

`SOFTware`

`HARDware`

Returns `String`

The string values returned are:

`SOFTware`

`HARDware`

Examples `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:VIAINTF SOFTWARE` sets the interference method selection to Software.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:VIAINTF?` returns the interference method selection.

RFXPress:RADAr:IQIMpairment:CARRleakage:IVALue

Sets or returns the carrier leakage I value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:CARRleakage:IVALue
RFXPress:RADAr:IQIMpairment:CARRleakage:IVALue?
```

Related Commands RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.1 sets the carrier leakage I value to 0.1%.

RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE? returns the carrier leakage I value.

RFXPress:RADAr:IQIMpairment:CARRleakage:QVALue

Sets or returns the carrier leakage Q value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:CARRleakage:QVALue
RFXPress:RADAr:IQIMpairment:CARRleakage:QVALue?
```

Related Commands RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.1 sets the carrier leakage Q value to 0.1%.

RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE? returns the carrier leakage Q value.

RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon

Sets or returns the “Turn On”status of carrier leakage.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon
{<NR1>|OFF|ON}
```

RFXPress:RADAr:IQIMpairment:CARRleakage:TURNon?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the carrier leakage status to On.

RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the carrier leakage status.

RFXPress:RADAr:IQIMpairment:HWSKew:CH1Val

Sets or returns the channel 1 hardware skew value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:HWSKew:CH1Val
RFXPress:RADAr:IQIMpairment:HWSKew:CH1Val?
```

Related Commands RFXPress:RADAr:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL 100e-12 sets the hardware skew channel 1 skew value to 100 ps.

RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the hardware skew channel 1 skew value.

RFXPress:RADAr:IQIMpairment:HWSKew:CH2Val

Sets or returns the channel 2 hardware skew value.

Group Radar: I/Q Impairments

Syntax

```
RFXPress:RADAr:IQIMpairment:HWSKew:CH2Val
RFXPress:RADAr:IQIMpairment:HWSKew:CH2Val?
```

Related Commands RFXPress:RADAr:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL 100e-12` sets the hardware skew channel 2 skew value to 100 ps.

`RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL?` returns the hardware skew channel 2 skew value.

RFXPress:RADAr:IQIMpairment:HWSKew:CH3Val

Sets or returns the channel 3 hardware skew value.

Group Radar: I/Q Impairments

Syntax

```
RFXPress:RADAr:IQIMpairment:HWSKew:CH3Val
RFXPress:RADAr:IQIMpairment:HWSKew:CH3Val?
```

Related Commands RFXPress:RADAr:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL 100e-12` sets the hardware skew channel 3 skew value to 100 ps.

`RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL?` returns the hardware skew channel 3 skew value.

RFXPress:RADAr:IQIMpairment:HWSKew:CH4Val

Sets or returns the channel 4 hardware skew value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:HWSKew:CH4Val
RFXPress:RADAr:IQIMpairment:HWSKew:CH4Val?
```

Related Commands RFXPress:RADAr:IQIMpairment:HWSKew:TURNon

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL 100e-12` sets the hardware skew channel 4 skew value to 100 ps.

`RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL?` returns the hardware skew channel 4 skew value.

RFXPress:RADAr:IQIMpairment:HWSKew:TURNon

Sets or returns the “Turn On”status of hardware skew.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:HWSKew:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:IQIMpairment:HWSKew:TURNon?
```

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON 1` sets the hardware skew status to On.

`RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON?` returns the hardware skew status.

RFXPress:RADAr:IQIMpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:IQIMbalance:IQIMbalance
RFXPress:RADAr:IQIMpairment:IQIMbalance:IQIMbalance?
```

Related Commands RFXPress:RADAr:IQIMpairment:IQIMbalance:TURNon

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09` sets the IQ imbalance value to 0.09%.

`RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE?` returns the IQ imbalance value.

RFXPress:RADAr:IQIMpairment:IQIMbalance:TURNon

Sets or returns the “Turn On” status of IQ Imbalance.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:IQIMbalance:TURNon
{<NR1>|OFF|ON}
RFXPress:RADAr:IQIMpairment:IQIMbalance:TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON 1` sets the IQ imbalance status to On.

`RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON?` returns the IQ imbalance status.

RFXPress:RADAr:IQIMpairment:IQSWap:TURNon

Sets or returns the "Turn On" status of IQ Swap.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:IQSWap:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:IQIMpairment:IQSWap:TURNon?
```

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON 1` sets the IQ Swap status to On.

`RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON?` returns the IQ Swap status.

RFXPress:RADAr:IQIMpairment:QUADerror:DEGRees

Sets or returns the quadrature error degrees value.

Group Radar: I/Q Impairments

Syntax
```
RFXPress:RADAr:IQIMpairment:QUADerror:DEGRees
RFXPress:RADAr:IQIMpairment:QUADerror:DEGRees?
```

Related Commands RFXPress:RADAr:IQIMpairment:QUADerror:TURNon

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES 0.09` sets the quadrature error to 0.09 degrees.

`RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES?` returns the quadrature error value.

RFXPress:RADAr:IQIMpairment:QUADerror:TURNon

Sets or returns the "Turn On" status of quadrature error.

Group

Radar: I/Q Impairments

Syntax

```
RFXPress:RADAr:IQIMpairment:QUADerror:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:IQIMpairment:QUADerror:TURNon?
```

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON 1` sets the quadrature error status to On.

`RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON?` returns the quadrature error status.

RFXPress:RADAr:PULSe:ANTEnna:BEAM:FILE

Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to "User Defined" before using this command.

Group

Radar: Antenna scanning

Syntax

```
RFXPress:RADAr:PULSe:ANTEnna:BEAM:FILE
RFXPress:RADAr:PULSe:ANTEnna:BEAM:FILE?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE

Arguments `String`

Returns `String`

Examples `RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE "C:\beamfile.txt"` sets the custom antenna beam type file for the currently selected pulse.

`RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE?` returns the custom antenna beam type file for the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE

Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

Group Radar: Antenna scanning

Syntax
```
RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE
RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

Arguments `String`

The string values are:

`Sinc`

`Gaussian`

`User Defined`

Returns `String`

The string values returned are:

`Sinc`

`Gaussian`

`User Defined`

Examples

`RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE "Gaussian"` sets the antenna beam type of the currently selected pulse to Gaussian.

`RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE?` returns the antenna beam type of the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:BEAM:WIDTh

Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either "Sinc" or "Gaussian" before using this command.

Group

Radar: Antenna scanning

Syntax

```
RFXPress:RADAr:PULSe:ANTEnna:BEAM:WIDTh
RFXPress:RADAr:PULSe:ANTEnna:BEAM:WIDTh?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH 90` sets the antenna beam width of the currently selected pulse to 90 degrees.

`RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH?` returns the antenna beam width of the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:MRAValue

Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either "Sinc" or "Gaussian" before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Antenna scanning

Syntax
```
RFXPress:RADAr:PULSe:ANTEnna:MRAValue
RFXPress:RADAr:PULSe:ANTEnna:MRAValue?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE 90` sets the antenna MRA of the currently selected pulse to 90 degrees.

`RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE?` returns the antenna MRA of the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:SCANrate

Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.

Group Radar: Antenna scanning

Syntax
```
RFXPress:RADAr:PULSe:ANTEnna:SCANrate
RFXPress:RADAr:PULSe:ANTEnna:SCANrate?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

Arguments `Real`

Returns Real

Examples RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE 60 sets the antenna scan rate of the currently selected pulse to 60 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE? returns the antenna scan rate of the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:TBEAring

Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

Group Radar: Antenna scanning

Syntax
```
RFXPress:RADAr:PULSe:ANTEnna:TBEAring
RFXPress:RADAr:PULSe:ANTEnna:TBEAring?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:ANTEnna:TURNon

RFXPress:RADAr:PULSe:ANTEnna:BEAM:TYPE

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING 90 sets the antenna target bearing of the currently selected pulse to 90 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING? returns the antenna target bearing of the currently selected pulse.

RFXPress:RADAr:PULSe:ANTEnna:TURNon

Sets or returns the “Turn On” status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Antenna scanning

Syntax
```
RFXPress:RADAr:PULSe:ANTEnna:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:ANTEnna:TURNon?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:PULSE:ANTENNA:TURNON 1` sets the antenna scanning status for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:ANTENNA:TURNON?` returns the antenna scanning status for the currently selected pulse.

RFXPress:RADAr:PULSe:HOPPing:ADDHop (No Query Form)

Adds a new hop to the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on hopping before using this command.

Group Radar: Pulse hopping

Syntax
```
RFXPress:RADAr:PULSe:HOPPing:ADDHop
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:HOPPing:TURNon

Examples `RFXPRESS:RADAR:PULSE:HOPPING:ADDHOP` adds a new hop to the hoping table for the currently selected pulse.

RFXPress:RADAr:PULSe:HOPPing:DELHop (No Query Form)

Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax
```
RFXPress:RADAr:PULSe:HOPPing:DELHop
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:HOPPing:TURNon

RFXPress:RADAr:PULSe:HOPPing:SELHop

Examples `RFXPRESS:RADAR:PULSE:HOPPING:DELHOP` deletes the selected hop in the hopping table for the selected pulse.

RFXPress:RADAr:PULSe:HOPPing:OFFSet

Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax
```
RFXPress:RADAr:PULSe:HOPPing:OFFSet
RFXPress:RADAr:PULSe:HOPPing:OFFSet?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:HOPPing:TURNon

RFXPress:RADAr:PULSe:HOPPing:SELHop

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:HOPPING:OFFSET 10E06` sets the frequency offset of the currently selected hop in the hopping table to 10 MHz.

`RFXPRESS:RADAR:PULSE:HOPPING:OFFSET?` returns the frequency offset of the currently selected hop in the hopping table.

RFXPress:RADAr:PULSe:HOPPing:RELAmplitude

Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax

```
RFXPress:RADAr:PULSe:HOPPing:RELAmplitude
RFXPress:RADAr:PULSe:HOPPing:RELAmplitude?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:HOPPing:TURNon

RFXPress:RADAr:PULSe:HOPPing:SELHop

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE -10` sets the relative amplitude of the currently selected hop in the hopping table to -10 dB.

`RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE?` returns the relative amplitude of the currently selected hop in the hopping table.

RFXPress:RADAr:PULSe:HOPPing:REPEat

Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.

Group Radar: Pulse hopping

Syntax

```
RFXPress:RADAr:PULSe:HOPPing:REPEat {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:HOPPing:REPEat?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:HOPPing:TURNon

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:HOPPING:REPEAT 1 sets the repeat status of pulse hopping for the currently selected pulse to ON.

RFXPRESS:RADAR:PULSE:HOPPING:REPEAT? returns the repeat status of pulse hopping for the currently selected pulse.

RFXPress:RADAr:PULSe:HOPPing:SELHop

Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.

Group Radar: Pulse hopping

Syntax
```
RFXPress:RADAr:PULSe:HOPPing:SELHop
RFXPress:RADAr:PULSe:HOPPing:SELHop?
```

Related Commands RFXPress:RADAr:PULSe:HOPPing:SELHop

RFXPress:RADAr:PULSe:HOPPing:TURNon

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:HOPPING:SELHOP 1 sets a path with the index 1 in the hopping table.

RFXPRESS:RADAR:PULSE:HOPPING:SELHOP? returns the index for a selected path in the hopping table.

RFXPress:RADAr:PULSe:HOPPing:TURNon

Sets or returns the “Turn On” status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse hopping

Syntax
```
RFXPress:RADAr:PULSe:HOPPing:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:HOPPing:TURNon?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:PULSE:HOPPING:TURNON 1` sets the status of pulse hopping for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:HOPPING:TURNON?` returns the status of pulse hopping for the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp

Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax
```
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP –10 set the pulse impairments amplitude deviation value of the currently selected pulse to –10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP? get the pulse impairments amplitude deviation value of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVSHoot

Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax
```
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVSHoot
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVSHoot?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT –10 set the pulse impairments amplitude deviation overshoot value of the currently selected pulse to 10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT? get the pulse impairments amplitude overshoot deviation value of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency

Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY 10E06` set the pulse impairments amplitude deviation ripple frequency value of the currently selected pulse to 10 MHz.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY?` get the pulse impairments amplitude deviation ripple frequency value of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue

Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE 10` set the pulse impairments amplitude deviation ripple value of the currently selected pulse to 10%.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE?` get the pulse impairments amplitude deviation ripple value of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon

Sets or returns the "Turn On" status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Group

Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon
{<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNon?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON 1` sets the status of pulse impairments amplitude deviation for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON?` returns the status of pulse impairments amplitude deviation for the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype

Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.

Group

Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype?
```

Related Commands

RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

RFXPress:RADAr:PULTrain:SELEct

Arguments

`String`

The string values are:

`None`

`Gaussian`

`Uniform`

Returns

`String`

The string values returned are:

`None`

`Gaussian`

`Uniform`

Examples

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGETYPE "Gaussian"` sets the pulse impairments jitter edge type of the currently selected pulse to "Gaussian".

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGETYPE?` returns the pulse impairments jitter edge type of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation

Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either "Uniform" or "Gaussian" before using this command.

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation
RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation?
```

Related Commands RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype

RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION 100e-06` sets the pulse impairments jitter edge deviation of the currently selected pulse to 100 µs.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION?` returns the pulse impairments jitter edge deviation of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

Sets or returns the "Turn On" status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon
{<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON 1` sets the status of pulse impairments jitter for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON?` returns the status of pulse impairments jitter for the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDEviation

Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”. Set the pulse impairments jitter width type to either “Uniform” or “Gaussian”.

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDEviation
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDEviation?
```

Related Commands RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

RFXPress:RADAr:PULTrain:SELEct

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION 100e-06` sets the pulse impairments jitter width deviation of the currently selected pulse to 100 µs.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION?` returns the pulse impairments jitter width deviation of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDThtype

Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Group Radar: Pulse impairments

Syntax

```
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDThtype
RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDThtype?
```

Related Commands RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

RFXPress:RADAr:PULTrain:SELEct

Arguments `String`

The string values are:

`None`

`Gaussian`

`Uniform`

Returns `String`

The string values returned are:

`None`

`Gaussian`

`Uniform`

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHTYPE "Gaussian"` sets the pulse impairments jitter width type of the currently selected pulse to "Gaussian".

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHTYPE?` returns the pulse impairments jitter width type of the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation

Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation
RFXPress:RADAr:PULSe:MODUlation?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `String`

The string values are:

`“No Modulation”`

`“Linear Frequency Modulation”`

`“Biphase Coded Pulse - Barker”`

`“Polyphase Codes”`

`“User Defined Step PM AM”`

`“Step Frequency Modulation”`

`“Non Linear FM”`

`“User Defined Step FM AM”`

`“Custom Modulation”`

`“Up-Down Chirp Modulation”`

`“Frank Code”`

`“P1-Polyphase Code”`

`“P2-Polyphase Code”`

`“P3-Polyphase Code”`

`“P4-Polyphase Code”`

`“QPSK”`

`“BPSK”`

Returns `String`

The string values returned are:

“No Modulation”

“Linear Frequency Modulation”

“Biphase Coded Pulse - Barker”

“Polyphase Codes”

“User Defined Step PM AM”

“Step Frequency Modulation”

“Non Linear FM”

“User Defined Step FM AM”

“Custom Modulation”

“Up-Down Chirp Modulation”

“Frank Code”

“P1-Polyphase Code”

“P2-Polyphase Code”

“P3-Polyphase Code”

“P4-Polyphase Code”

“QPSK”

“BPSK”

Examples `RFXPRESS:RADAR:PULSE:MODULATION "Step Frequency Modulation"` sets the modulation for the currently selected pulse to "Step Frequency Modulation".

`RFXPRESS:RADAR:PULSE:MODULATION?` returns the modulation for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE

Sets or returns the barker code in the Biphase Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphase Coded Pulse modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE
RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE?
```

Related Commands

Arguments

`String`

The string values are:

“2”

“3”

“4”

“5”

“7"

“11”

“13”

Returns

`String`

The string values returned are:

“2”

“3”

“4”

“5”

“7"

“11”

“13”

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE "2"` sets the barker code for the currently selected pulse to "2".

`RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE?` returns the pulse for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAMe

Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAMe
RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAMe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `String`

Returns `String`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME "C:\Hello"` sets the file name in custom modulation for the currently selected pulse to "C:\Hello".

`RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME?` returns the file name in custom modulation for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:FRANk:CODElength

Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:FRANk:CODElength
RFXPress:RADAr:PULSe:MODUlation:FRANk:CODElength?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH 9` sets the code length for the currently selected pulse to 9.

`RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH?` returns the code length for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep

Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep
RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments

`String`

The string values are:

`“Low to High”`

`“High to Low”`

Returns

`String`

The string values returned are:

`“Low to High”`

`“High to Low”`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEEP "High to Low"` sets the frequency sweep for the linear frequency modulation of the currently selected pulse to "High to Low".

`RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEEP?` returns the of pulse for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange

Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange
RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE 12e6` sets the sweep range for the linear frequency modulation for the currently selected pulse to 12 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE?` returns the pulse for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:NLFM:ADD (No Query Form)

Adds ‘n’ order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:NLFM:ADD
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:ADD` adds Non Linear FM order for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFficient

Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFficient
RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFficient?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT 2e-10` sets the coefficient for the selected order in linear frequency modulation for the currently selected pulse to 20 ns.

`RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT?` returns the coefficient for the selected order in linear frequency modulation for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:NLFM:DELN (No Query Form)

Deletes ‘n’ order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAr:PULSe:MODUlation:NLFM:DELN`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:DELN 2` deletes the second order in nonlinear FM for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder

Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder
RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELORDER 2` sets the selected order for the currently selected pulse to 2.

`RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELORDER?` returns the selected order for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength

Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength
RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH 9` sets the code length for the currently selected pulse to 9.

`RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH?` returns the code length for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength

Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength
RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength

Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength
RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength

Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength
RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH 9` sets the code length for the currently selected pulse to 9.

`RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH?` returns the code length for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset

Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET 60` sets the initial offset for the currently selected pulse to 60 degrees.

`RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET?` returns the initial offset for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOffset

Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOffset
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOffset?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET 23` sets the phase offset for the currently selected pulse to 23 degrees.

`RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET?` returns the phase offset for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs

Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS 8 sets the number of steps for the currently selected pulse to 8.

RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS? returns the number of steps for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME

Sets or returns the status of "Same symbols for all pulses" for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME 1 sets the "Same symbols for all pulses" status for the currently selected pulse group to ON.

RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME? returns the "Same symbols for all pulses" status for the currently selected pulse group.

RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBols

Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBols
RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBols?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS 25` sets the number of symbols for the currently selected pulse to 25.

`RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS?` returns the number of symbols for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:SFM:INIStep

Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:SFM:INIStep
RFXPress:RADAr:PULSe:MODUlation:SFM:INIStep?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP 12e6 sets the initial step size for the currently selected pulse to 12 MHz.

RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP? returns the initial step size for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:SFM:STEPs

Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:SFM:STEPs
RFXPress:RADAr:PULSe:MODUlation:SFM:STEPs?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS 7 sets the number of steps for the currently selected pulse to 7.

RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS? returns the number of steps for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:SFM:STPSize

Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:SFM:STPSize
RFXPress:RADAr:PULSe:MODUlation:SFM:STPSize?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE 100e6` sets the step size for the currently selected pulse to 100 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE?` returns the step size for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt

Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt
RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Boolean`

Returns `Boolean`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT 1` sets the invert status for the currently selected pulse to ON.

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT?` returns the invert status for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOwns

Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOwns
RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOwns?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments

`Integer`

Returns

`Integer`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS 12` sets the number of up-downs for the currently selected pulse to 12.

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS?` returns the number of up-downs for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:ADDN (No Query Form)

Adds ‘n’ user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Pulse modulation

Syntax `RFXPress:RADAr:PULSe:MODUlation:USDCodes:ADDN`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:ADDN6` adds 6 user defined steps for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude
RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE -45` sets the amplitude for the currently selected pulse to -45 dB.

`RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE?` returns the amplitude for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:DELN (No Query Form)

Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group

Radar: Pulse modulation

Syntax

`RFXPress:RADAr:PULSe:MODUlation:USDCodes:DELN`

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments

`Integer`

Returns

`Integer`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DELN 2` deletes the second user defined step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:DURAtion

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DURAtion
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DURAtion?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION 20 sets the duration for the selected step for the currently selected pulse to 20 ns.

RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION? returns the duration for the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:PHASe

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USDCodes:PHASe
RFXPress:RADAr:PULSe:MODUlation:USDCodes:PHASe?
```

Related Commands RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE 45` sets the phase for the selected step for the currently selected pulse to 45 degrees.

`RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE?` returns the phase for the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group PROBABLY RFXpress

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep
RFXPress:RADAr:PULSe:MODUlation:USDCodes:SELStep?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP 2` sets the selected step for the currently selected pulse to 2.

`RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP?` returns the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:ADDN (No Query Form)

Adds ‘n’ user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAr:PULSe:MODUlation:USFM:ADDN`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:ADDN 20` adds 20 user defined steps for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:DELN (No Query Form)

Deletes ‘n’ user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAr:PULSe:MODUlation:USFM:DELN`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:DELN 2` deletes the second user defined step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:DURAtion

Sets or returns the duration for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USFM:DURAtion
RFXPress:RADAr:PULSe:MODUlation:USFM:DURAtion?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION 20` sets the duration for the currently selected pulse to 20 ns.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION?` returns the duration for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset

Sets or returns the frequency offset for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset
RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET 30e6` sets the frequency offset for the currently selected pulse to 30 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET?` returns the frequency offset for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep

Sets or returns the currently selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep
RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments

`Integer`

Returns

`Integer`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP 2` set the selected step for the currently selected pulse to 2.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP?` returns the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude
RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE -45` sets the amplitude for the selected step for the currently selected pulse to -45 dB.

`RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE?` returns the amplitude for the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:DELN (No Query Form)

Deletes ‘n’ user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USPM:DELN
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:DELN 2` deletes second user defined step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion
RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION 20` sets the duration for the selected step for the currently selected pulse to 20 ns.

`RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION?` returns the duration for the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe
RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE 45` sets the phase for the selected step for the currently selected pulse to 45 degrees.

`RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE?` returns the phase for the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep
RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP 2` sets the selected step for the currently selected pulse to 2.

`RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP?` returns the selected step for the currently selected pulse.

RFXPress:RADAr:PULSe:MULTipath:ADDPath (No Query Form)

Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.

Group Radar: Multipath

Syntax `RFXPress:RADAr:PULSe:MULTipath:ADDPath`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

Examples `RFXPRESS:RADAR:PULSE:MULTIPATH:ADDPATH` adds a new path to the multipath table for the currently selected pulse.

RFXPress:RADAr:PULSe:MULTipath:AMPLitude

Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax

```
RFXPress:RADAr:PULSe:MULTipath:AMPLitude
RFXPress:RADAr:PULSe:MULTipath:AMPLitude?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

RFXPress:RADAr:PULSe:MULTipath:SELPath

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE –20` sets the level of the selected path in the multipath table to –20 dB.

`RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE?` returns the level of the selected path in the multipath table.

RFXPress:RADAr:PULSe:MULTipath:DELAy

Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

Group

Radar: Multipath

Syntax

```
RFXPress:RADAr:PULSe:MULTipath:DELAy
RFXPress:RADAr:PULSe:MULTipath:DELAy?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

RFXPress:RADAr:PULSe:MULTipath:SELPath

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:MULTIPATH:DELAY 1` sets the delay of the selected path in the multipath table to 1 µs.

`RFXPRESS:RADAR:PULSE:MULTIPATH:DELAY?` returns the delay of the selected path in the multipath table.

RFXPress:RADAr:PULSe:MULTipath:DELPath (No Query Form)

Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group

Radar: Multipath

Syntax

```
RFXPress:RADAr:PULSe:MULTipath:DELPath
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

RFXPress:RADAr:PULSe:MULTipath:SELPath

Examples

`RFXPRESS:RADAR:PULSE:MULTIPATH:DELPATH` deletes the selected path in the multipath table for the currently selected pulse.

RFXPress:RADAr:PULSe:MULTipath:PHASe

Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group

Radar: Multipath

Syntax

```
RFXPress:RADAr:PULSe:MULTipath:PHASe
RFXPress:RADAr:PULSe:MULTipath:PHASe?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

RFXPress:RADAr:PULSe:MULTipath:SELPath

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE 180 sets the phase of the selected path in the multipath table to 180 degrees.

RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE? returns the phase of the selected path in the multipath table.

RFXPress:RADAr:PULSe:MULTipath:SELPath

Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax
```
RFXPress:RADAr:PULSe:MULTipath:SELPath
RFXPress:RADAr:PULSe:MULTipath:SELPath?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MULTipath:TURNon

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH 1 selects a path with the specified delay (1 us) in the multipath table.

RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH? returns the selected path with the specified delay in the multipath table.

RFXPress:RADAr:PULSe:MULTipath:TURNon

Sets or returns the "Turn On" status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Multipath

Syntax
```
RFXPress:RADAr:PULSe:MULTipath:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:MULTipath:TURNon?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON 1` sets the status of multipath for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON?` returns the status of multipath for the currently selected pulse.

RFXPress:RADAr:PULSe:PENVelope:BBOFfset

Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:BBOFfset
RFXPress:RADAr:PULSe:PENVelope:BBOFfset?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:COMPile:SIGFormat

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET 1000 sets the carrier offset value of the selected pulse to 1 KHz.

RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET? returns the carrier offset value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:CAROffset

Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:CAROffset
RFXPress:RADAr:PULSe:PENVelope:CAROffset?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:COMPile:SIGFormat

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET 1000 sets the carrier offset value of the selected pulse to 1 KHz.

RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET? returns the carrier offset value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:CUSTomfile

Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.

Group Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:CUSTomfile
RFXPress:RADAr:PULSe:PENVelope:CUSTomfile?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:PENVelope:SHAPe

Arguments

`String`

Returns

`String`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE "C:\file.txt"` sets custom pulse shape file of the selected pulse.

`RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE?` returns the custom pulse shape file of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:RELAmplitude

Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:RELAmplitude
RFXPress:RADAr:PULSe:PENVelope:RELAmplitude?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE -40` sets the relative amplitude value of the selected pulse to –40 dB.

`RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE?` returns the relative amplitude value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:REPEat

Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:REPEat
RFXPress:RADAr:PULSe:PENVelope:REPEat?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT 5` sets the repeat value of the selected pulse to 5.

`RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT?` returns the repeat value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:SAMPlerate

Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:SAMPlerate
RFXPress:RADAr:PULSe:PENVelope:SAMPlerate?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE 1000` sets the sampling rate value of the selected pulse to 1 KHz.

`RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE?` returns the sampling rate value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:SHAPe

Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:SHAPe
RFXPress:RADAr:PULSe:PENVelope:SHAPe?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`String`

The string values are:

`Trapezoidal`

`Raised Cosine`

`Exponential`

`Rectangular`

`Saw Tooth`

`Custom`

Returns

`String`

The string values returned are:

`Trapezoidal`

`Raised Cosine`

`Exponential`

`Rectangular`

`Saw Tooth`

`Custom`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE "Exponential"` sets the pulse shape of the selected pulse to Exponential.

`RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE?` returns the pulse shape of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:PERCentage

Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:PERCentage
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:PERCentage?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`String`

The string values are:

`Zero to Hundred`

`Ten to Ninety`

`Twenty to Eighty`

Returns

`String`

The string values returned are:

`Zero to Hundred`

`Ten to Ninety`

`Twenty to Eighty`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE "Zero to Hundred"` sets the fall time percentage value of the selected pulse to Zero to Hundred.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE?` returns the fall time percentage value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:VALUe

Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:VALUe
RFXPress:RADAr:PULSe:PENVelope:TIME:FALL:VALUe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE 0.1` sets the fall time value of the selected pulse to 100 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE?` returns the fall time value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:OFFTime

Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:TIME:OFFTime
RFXPress:RADAr:PULSe:PENVelope:TIME:OFFTime?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME 0.2` sets the off time value of the selected pulse to 200 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME?` returns the off time value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:PERCentage

Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:PERCentage
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:PERCentage?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`String`

The string values are:

`Zero to Hundred`

`Ten to Ninety`

`Twenty to Eighty`

Returns

`String`

The string values returned are:

`Zero to Hundred`

`Ten to Ninety`

`Twenty to Eighty`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE "Zero to Hundred"` sets the rise time percentage value of the selected pulse to Zero to Hundred.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE?` returns the rise time percentage value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:VALUe

Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:VALUe
RFXPress:RADAr:PULSe:PENVelope:TIME:RISE:VALUe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE 0.1` sets the rise time value of the selected pulse to 100 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE?` returns the rise time value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:TIME:STARtvalue

Sets or returns the pulse envelope start time value for the currently selected pulse group.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:TIME:STARtvalue
RFXPress:RADAr:PULSe:PENVelope:TIME:STARtvalue?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE 0.2` sets the start time value of the selected pulse to 200 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE?` returns the start time value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:WIDTh:POWEr

Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse envelope group

Syntax

```
RFXPress:RADAr:PULSe:PENVelope:WIDTh:POWEr
RFXPress:RADAr:PULSe:PENVelope:WIDTh:POWEr?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`String`

The string values are:

`Fifty`

`Hundred`

Returns

`String`

The string values returned are:

`Fifty`

`Hundred`

Examples

`RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER "Hundred"` sets the width power value of the selected pulse to "Hundred".

`RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER?` returns sets the width power value of the selected pulse.

RFXPress:RADAr:PULSe:PENVelope:WIDTh:VALUe

Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax
```
RFXPress:RADAr:PULSe:PENVelope:WIDTh:VALUe
RFXPress:RADAr:PULSe:PENVelope:WIDTh:VALUe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE 0.1` sets the width value of the selected pulse to 100 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE?` returns the width value of the selected pulse.

RFXPress:RADAr:PULSe:STAGpri:ADDPri (No Query Form)

Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command. The number of PRI deviations that can be added depends upon the pulse group's repeat value.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:ADDPri
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:ADDPRI` adds a new PRI deviation to the PRI deviation table for the selected pulse.

RFXPress:RADAr:PULSe:STAGpri:DELPri (No Query Form)

Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to "User Defined" before using this command.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:DELPri
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

RFXPress:RADAr:PULSe:STAGpri:SELPri

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:DELPRI` deletes the selected PRI deviation in the PRI deviation table for the selected pulse.

RFXPress:RADAr:PULSe:STAGpri:DEVIation

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:DEVIation
RFXPress:RADAr:PULSe:STAGpri:DEVIation?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

RFXPress:RADAr:PULSe:STAGpri:SELPri

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION 10e-3` sets the PRI deviation of the selected index to 10 ms.

`RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION?` returns the index of the selected PRI deviation in the PRI deviation table.

RFXPress:RADAr:PULSe:STAGpri:REPEat

Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to "User Defined" before using this command.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:REPEat {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:STAGpri:REPEat?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT 1` sets the repeat status of pulse staggered PRI for the selected pulse to ON.

`RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT?` returns the repeat status of pulse staggered PRI for the selected pulse.

RFXPress:RADAr:PULSe:STAGpri:SELPri

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:SELPri
RFXPress:RADAr:PULSe:STAGpri:SELPri?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI 1` sets PRI deviation with the index 1 in the PRI deviation table.

`RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI?` returns the index for the selected PRI in the PRI deviation table.

RFXPress:RADAr:PULSe:STAGpri:SLOPe

Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to “Ramp” before using this command.

Group Radar: Pulse Staggered PRI

Syntax
```
RFXPress:RADAr:PULSe:STAGpri:SLOPe
RFXPress:RADAr:PULSe:STAGpri:SLOPe?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

RFXPress:RADAr:PULSe:STAGpri:TYPE

Arguments Real

Returns Real

Examples

`RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE 90` sets the slope of the staggered PRI ramp for the currently selected pulse group to 90 degrees.

`RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE?` returns the slope of the staggered PRI ramp for the currently selected pulse group.

RFXPress:RADAr:PULSe:STAGpri:TURNon

Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group

Radar: Pulse Staggered PRI

Syntax

```
RFXPress:RADAr:PULSe:STAGpri:TURNon {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:STAGpri:TURNon?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:RADAR:PULSE:STAGPRI:TURNON 1` sets the "Turn On" status of pulse staggered PRI for the currently selected pulse.

`RFXPRESS:RADAR:PULSE:STAGPRI:TURNON?` returns the "Turn On" status of pulse staggered PRI for the currently selected pulse.

RFXPress:RADAr:PULSe:STAGpri:TYPE

Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

Group

Radar: Pulse Staggered PRI

Syntax

```
RFXPress:RADAr:PULSe:STAGpri:TYPE
RFXPress:RADAr:PULSe:STAGpri:TYPE?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:STAGpri:TURNon

Arguments `String`

The string values are:

“`Ramp`”

“`User Defined`”

Returns `String`

The string values returned are:

“`Ramp`”

“`User Defined`”

Examples `RFXPRESS:RADAR:PULSE:STAGPRI:TYPE “User Defined”` sets the type of the staggered PRI for the currently selected pulse group to “User Defined”.

`RFXPRESS:RADAR:PULSE:STAGPRI:TYPE?` returns the type of the staggered PRI for the currently selected pulse group.

RFXPress:RADAr:PULTrain:ADDElement (No Query Form)

Adds a pulse or dead-time to the pulse train table. To add a pulse, use “PULSE”. To add a dead-time, use “DEAD TIME”.

Group Radar: Pulse train settings

Syntax `RFXPress:RADAr:PULTrain:ADDElement`

Related Commands RFXPress:SELApp

Arguments `String`

Examples `RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “PULSE”` adds a pulse to the pulse train table.

`RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “DEAD TIME”` adds a dead time to the pulse train table.

RFXPress:RADAr:PULTrain:ANCHor

Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.

Group Radar: Pulse train settings

Syntax
```
RFXPress:RADAr:PULTrain:ANCHor
RFXPress:RADAr:PULTrain:ANCHor?
```

Related Commands RFXPress:RADAr:PULTrain:ADDElement

RFXPress:RADAr:PULTrain:INSElement

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULTRAIN:ANCHOR 2` sets the second index as the anchor pulse.

RFXPress:RADAr:PULTrain:COUNt? (Query Only)

Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

Group Radar: Pulse train settings

Syntax
```
RFXPress:RADAr:PULTrain:COUNt?
```

Returns `Integer`

The output is the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.

Examples `RFXPRESS:RADAR:PULTRAIN:COUNT?` returns the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.

RFXPress:RADAr:PULTrain:DELEte (No Query Form)

Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.

Group Radar: Pulse train settings

Syntax `RFXPress:RADAr:PULTrain:DELEte`

Related Commands RFXPress:RADAr:PULTrain:SELEct

Examples `RFXPRESS:RADAR:PULTRAIN:DELETE` deletes the currently selected element in the pulse train table.

RFXPress:RADAr:PULTrain:INSElement (No Query Form)

Inserts a new pulse or dead-time in the pulse train table.

Group Radar: Pulse train settings

Syntax `RFXPress:RADAr:PULTrain:INSElement`

Related Commands RFXPress:RADAr:PULTrain:ADDElement

Arguments `String`

Examples `RFXPRESS:RADAR:PULTRAIN:INSELEMENT "PULSE"` inserts a pulse to the pulse train table.

`RFXPRESS:RADAR:PULTRAIN:INSELEMENT "DEAD TIME"` inserts a dead time to the pulse train table.

RFXPress:RADAr:PULTrain:SELEct

Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.

Group Radar: Pulse train settings

Syntax

```
RFXPress:RADAr:PULTrain:SELEct
RFXPress:RADAr:PULTrain:SELEct?
```

Related Commands

RFXPress:RADAr:PULTrain:ADDElement

RFXPress:RADAr:PULTrain:INSElement

Arguments

`Integer`

Returns

`Integer`

Examples

`RFXPRESS:RADAR:PULTRAIN:SELECT 2` selects the second element (pulse or dead-time) from the pulse train table.

`RFXPRESS:RADAR:PULTRAIN:SELECT?` returns the currently selected element (pulse or dead-time) from the pulse train table.

RFXPress:RADAr:PULTrain:SELPulse:ADDItion:SELAll

Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

Group

Radar: Add pulse group

Syntax

```
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:SELAll
{<NR1>|OFF|ON}
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:SELAll?
```

Arguments

`Boolean`

Returns

`Boolean`

Examples

`RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL 1` sets the pulse addition status of all the pulse groups.

`RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL?` returns the pulse addition status of all the pulse groups.

RFXPress:RADAr:PULTrain:SELPulse:ADDItion:TURNon

Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.

Group Radar: Add pulse group

Syntax
```
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:TURNon
{<NR1>|OFF|ON}
RFXPress:RADAr:PULTrain:SELPulse:ADDItion:TURNon?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON 1` sets the pulse addition status of the pulse at index 2 (the currently selected index) to On.

`RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON?` returns the pulse addition status of the pulse at index 2 (the currently selected index).

RFXPress:RADAr:PULTrain:TYPE? (Query Only)

Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.

Group Radar: Pulse train settings

Syntax
```
RFXPress:RADAr:PULTrain:TYPE?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

Returns String

The string values returned are:

PULSE

DEAD TIME

Examples RFXPRESS:RADAR:PULTRAIN:TYPE? returns the type of the currently selected element (pulse or dead-time) from the pulse train table.

RFXPress:RFDFile:LOAD (No Query Form)

Loads the waveform contained in the specified .rfd file in to the waveform list. The name of the loaded waveform will be same as the file name of the .rfd file. If the waveform list already contains a waveform with the same name, then this waveform will be overwritten with the loaded one.

Group Data file

Syntax RFXPress:RFDFile:LOAD

Related Commands RFXPress:RFDFile:SAVE

RFXPress:RFDFile:SELEct

Arguments String

Examples RFXPRESS:RFDFILE:LOAD "E:\MyData.rfd" loads the waveform stored in "E:\MyData.rfd" in to the waveform list.

RFXPress:RFDFile:SAVE (No Query Form)

Saves the currently selected waveform in the waveform list to a .rfd file. The waveform list must contain at least one waveform and only one waveform from the waveform list must be selected.

Group Data file

Syntax RFXPress:RFDFile:SAVE

Related Commands RFXPress:RFDFile:LOAD

RFXPress:RFDFile:SELEct

Arguments `String`

Examples `RFXPRESS:RFDFILE:SAVE "E:\MyData.rfd"` saves the “Waveform1” from the waveform list to "E:\MyData.rfd".

RFXPress:RFDFile:SELEct (No Query Form)

Selects the specified waveform in the waveform list. The waveform list must contain the specified waveform.

Group Data file

Syntax `RFXPress:RFDFile:SELEct`

Related Commands RFXPress:RFDFile:LOAD

RFXPress:RFDFile:SAVE

Arguments `String`

Examples `RFXPRESS:RFDFILE:SELECT "Waveform"` selects “Waveform1” in the waveform list.

RFXPress:RFSFile:LOAD (No Query Form)

Loads the specified .rfs file.

Group File

Syntax `RFXPress:RFSFile:LOAD`

Related Commands RFXPress:RFSFile:SAVE

Arguments `String`

Examples `RFXPRESS:RFSFILE:LOAD "E:\MySetup.rfs"` loads the setup "E:\MySetup.rfs".

RFXPress:RFSFile:SAVE (No Query Form)

Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected first.

Group File

Syntax
```
RFXPress:RFSFile:SAVE
```

Related Commands RFXPress:RFSFile:LOAD

Arguments
```
String
```

Examples `RFXPRESS:RFSFILE:SAVE "E:\MySetup.rfs"` saves the setup as "E:\MySetup.rfs".

RFXPress:RSTDefault (No Query Form)

Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

Group File

Syntax
```
RFXPress:RSTDefault
```

Examples `RFXPRESS:RSTDEFAULT` restores the default setup.

RFXPress:SELApp

Sets or returns the currently selected application.

Group Launch

Syntax
```
RFXPress:SELApp
RFXPress:SELApp?
```

Related Commands RFXPress

Arguments `String`

The string values are:

`Generic signal`

`UWB-WiMedia`

`Radar`

`OFDM`

Returns `String`

The string values returned are:

`Generic signal`

`UWB-WiMedia`

`Radar`

`OFDM`

Examples `RFXPRESS:SELAPP "Radar"` selects the Radar application.

`RFXPRESS:SELAPP?` returns the currently selected application.

RFXPress:RADAr:PULSe:MODUlation:UPDN:SWPRange

Sets or returns the sweep range in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:UPDN:SWPRange
RFXPress:RADAr:PULSe:MODUlation:UPDN:SWPRange?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Real`

Returns `Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE 12e6` sets the sweep range for the currently selected pulse to 12 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE?` returns the sweep range for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USFM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group

Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:USFM:AMPLitude
RFXPress:RADAr:PULSe:MODUlation:USFM:AMPLitude?
```

Related Commands

RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep

Arguments

`Real`

Returns

`Real`

Examples

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE -30` sets the amplitude for the currently selected pulse to -30 dB.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE?` returns the amplitude for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:USPM:ADDN (No Query Form)

Adds ‘n’ user defined code steps in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group

Radar: Pulse modulation

Syntax `RFXPress:RADAr:PULSe:MODUlation:USPM:ADDN`

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USPM:ADDN 6` adds 6 user defined steps for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:BPSK:SYMBols

Sets or returns the number of symbols in the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax
```
RFXPress:RADAr:PULSe:MODUlation:BPSK:SYMBols
RFXPress:RADAr:PULSe:MODUlation:BPSK:SYMBols?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Integer`

Returns `Integer`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS 25` sets the number of symbols for the BPSK modulation for the currently selected pulse to 25.

`RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS?` returns the number of symbols for the BPSK modulation for the currently selected pulse.

RFXPress:RADAr:PULSe:MODUlation:BPSK:SAME

Sets or returns the status of "Same symbols for all pulses" for the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax

```
RFXPress:RADAr:PULSe:MODUlation:BPSK:SAME {<NR1>|OFF|ON}
RFXPress:RADAr:PULSe:MODUlation:BPSK:SAME?
```

Related Commands RFXPress:RADAr:PULTrain:SELEct

RFXPress:RADAr:PULSe:MODUlation

Arguments `Boolean`

Returns `Boolean`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME 1` sets the "Same symbols for all pulses" status for the currently selected pulse group to ON.

`RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME?` returns the "Same symbols for all pulses" status for the currently selected pulse group.

Status and Events

Status and Events

There is no status and event information.

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