

# History and release notes for the Rohde & Schwarz FSU Spectrum Analyzer

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FSU driver history		
Revision	Date	Note
1.8.1	08/2005	Bug fixed functions: rsfsu_confNoise2ndStageCorrectionState rsfsu_confNoiseTraceSettings rsfsu_confNoiseGainTraceSettings
1.8	06/2005	- Driver update for FSU Spectrum Analyzer Firmware 3.61 - List of options: - K5 GSM/EDGE (3.60) - K7 FM-Demodulator - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.60) - K40 Phase Noise Measurements (3.60) - K72 3GPP FDD Base Station Test (3.60) - K73 3GPP FDD User Equipment Test (3.60) - K74 3GPP HSDPA Base Station Test (3.60) - K76 TD-SCDMA Base Station Test (3.60) - K77 TD-SCDMA Mobile Station Test (3.60) - K82 cdma2000 Base Station Test (3.60) - K83 cdma2000/1xEV-DV Mobile Station Test (3.60) - K84 1xEV-DO Base Station Test (3.60) - K85 1xEV-DO Mobile Station Test (3.60)  - New functions: External Trigger Level (rsfsu_confExtTrgLevel) FFT Filter Mode (rsfsu_confFFTFilterMode) Harmonic Distortion State (rsfsu_confHarmDistStat) Number Of Harmonics (rsfsu_confHarmDistCount) Harmonic Resolution BW Auto (rsfsu_confHarmDistRbwAuto) Channel Power Separate Channel Spacing (rsfsu_confSAMSeparateChannelSpacing) PWR Meter External Sensor (rsfsu_confPWRMeterExtSensor) PWR Meter Type (rsfsu_confPWRMeterType) PWR Meter Address (rsfsu_confPWRMeterAddress) PWR Meter Sensor Cal Factor (rsfsu_confPWRMeterSensorCalFactor) PWR Meter Sensor Label (rsfsu_confPWRMeterSensorLabel)

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		<p>PWR Meter Sensor Select (rsfsu_confPWRMeterSensorSelect)  Harmonic Distortion Adjust Settings (rsfsu_actHarmDistPreset)  Get Harmonic Distortion Result Values (rsfsu_getHarmDistResultValues)  Get First Harmonic Frequency (rsfsu_actHarmDistFirstFreq)  Power Splitter State (rsfsu_confPowerSplitterState)  Power Splitter Insertion Loss (rsfsu_confPowerSplitterInsertionLoss)  Power Splitter Path Loss (rsfsu_confPowerSplitterPathLoss)</p> <p>- Updated functions:  Trace IQ Set (rsfsu_confTraceIQ)  Set Status Register (rsfsu_setStatusRegister)  Get Status Register (rsfsu_getStatusRegister)  Vector Signal Analysis Mode (rsfsu_confVSAMDemodMode)  Enable VXI-11 rsfsu_init()  Changes for VXI-11 rsfsu_close()</p> <p>- Moved to Obsolete functions:  Channel Power Channel Spacing (confSAMChannelSpacing)</p> <p>- Option FS-K40 (Phase Noise Measurements)  - New functions:  Phase Noise Scale (rsfsu_confPhasNoisScale)  Phase Noise Autoscale Y (rsfsu_confPhasNoisAutoscaleY)  Phase Noise Center Freq (rsfsu_confPhasNoisCenterFrq)  Phase Noise Start And Stop Freq (rsfsu_confPhasNoisStartStopFrq)  Phase Noise Resolution BW Type (rsfsu_confPhasNoisResBwType)  Phase Noise Resolution BW Ratio (rsfsu_confPhasNoisResBwRatio)  Phase Noise Ref Level (rsfsu_confPhasNoisRefLevel)  Phase Noise Ref Level Offset (rsfsu_confPhasNoisRefLevelOffset)  Phase Noise Auto Level (rsfsu_confPhasNoisAutoLevel)  Phase Noise Signal Level (RF) (rsfsu_confPhasNoisSignalLevelRF)  Phase Noise Sweep (rsfsu_confPhasNoisSweep)  Phase Noise Sweep Count (rsfsu_confPhasNoisSweepCount)  Phase Noise Sweep Direction (rsfsu_confPhasNoisSweepDirect)  Phase Noise Sweep Display (rsfsu_confPhasNoisSweepDisplay)  Phase Noise Sweep Mode (rsfsu_confPhasNoisSweepMode)  Phase Noise Sub Channel RBW (rsfsu_confPhasNoisSubChanResBw)  Phase Noise Sub Channel RBW Type  (rsfsu_confPhasNoisSubChanResBwType)  Phase Noise Sub Channel Sweep Count  (rsfsu_confPhasNoisSubChanSweepCount)  Phase Noise Verification State (rsfsu_confPhasNoisVerifState)  Phase Noise Frequency Tolerance (rsfsu_confPhasNoisFreqTol)  Phase Noise Power Tolerance (rsfsu_confPhasNoisPowerTol)  Evaluation Range State (rsfsu_confPhasNoiseEvalRangeState)  Evaluation Range Frequency (rsfsu_confPhasNoiseEvalRangeFreq)  Phase Noise Limit Lines State (rsfsu_confPhasNoisLimitLineState)  Phase Noise Limit Lines Operation (rsfsu_confPhasNoiseLimitLineOper)  Phase Noise Limit Lines Data (rsfsu_confPhasNoisLimitLineData)  Phase Noise Limit Lines Switch (rsfsu_confPhasNoisLimitLineSwitch)  Phase Noise Limit Lines Shift (rsfsu_confPhasNoisLimitLineShift)  Phase Noise Limit Lines Trace (rsfsu_confPhasNoiseLimitLineTrace)  Phase Noise Marker State (rsfsu_confPhasNoisMarkState)  Phase Noise Marker Position (x) (rsfsu_confPhasNoisMarkPosX)  Phase Noise Marker Position (y) (rsfsu_confPhasNoisMarkPosY)  Phase Noise Marker to Trace (rsfsu_confPhasNoisMarkTrace)  Phase Noise Marker All Off (rsfsu_confPhasNoisMarkerAllOff)</p>

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		Phase Noise Delta Marker State (rsfsu_confPhasNoisDeltaMarkState) Phase Noise Delta Marker Position (x) (rsfsu_confPhasNoisDeltaMarkPosX) Phase Noise Delta Marker Position (y) (rsfsu_confPhasNoisDeltaMarkPosY) Phase Noise Delta Marker to Trace (rsfsu_confPhasNoisDeltaMarkTrace) Phase Noise Delta Marker All Off (rsfsu_confPhasNoisDeltaMarkerAllOff) Phase Noise Spot Noise State (rsfsu_confPhasNoisSpotNoiseState) Phase Noise Spot Noise Position (x) (rsfsu_confPhasNoisSpotNoisePosX) Phase Noise Spot Noise All Off (rsfsu_confPhasNoisSpotNoiseAllOff) Phase Noise Trace State (rsfsu_confPhasNoisTraceState) Phase Noise Trace Mode (rsfsu_confPhasNoisTraceMode) Phase Noise Smoothing State (rsfsu_confPhasNoisSmoothState) Phase Noise Smoothing Aperture (rsfsu_confPhasNoisSmoothAper) Phase Noise Mode (rsfsu_actPhasNoisMode) Phase Noise Scale Auto Adjust (rsfsu_actPhasNoisScaleAutoAdj) Phase Noise Start Measurement (rsfsu_actPhasNoisStartMeasurement) Phase Noise Start Measurement And Wait for OPC (rsfsu_actPhasNoisStartMeasurementWopc) Phase Noise Stop Measurement (rsfsu_actPhasNoisStopMeasurement) Get Phase Noise Measurement Time (rsfsu_actPhasNoisMeasTime) Phase Noise Limit Check Result (rsfsu_actPhasNoisLimitCheckResult) Phase Noise Limit Check Result Clear (rsfsu_actPhasNoisLimitCheckClear) Get Phase Noise Spot Noise Position (y) (rsfsu_confPhasNoisSpotNoisPosY) Fetch Phase Noise Result (rsfsu_dataFetchPhasNoisResult)
1.7	04/2005	- Driver update for FSU Spectrum Analyzer Firmware 3.50  - List of options: - K5 GSM/EDGE (3.50) - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.50) - K70 Vector Signal Analysis (3.50) - K72 3GPP FDD Base Station Test (3.50) - K73 3GPP FDD User Equipment Test (3.50) - K74 3GPP HSDPA Base Station Test (3.50) - K76 TD-SCDMA Base Station Test (3.50) - K77 TD-SCDMA Mobile Station Test (3.50) - K82 cdma2000 Base Station Test (3.50) - K83 cdma2000/1xEV-DV Mobile Station Test (3.50) - K84 1xEV-DO Base Station Test (3.50) - K85 1xEV-DO Mobile Station Test (3.50)  - Added software support for option FSU-B21  - List of updated and new functions follow: Configuration Functions General Device Settings Input Group External Mixer External Mixer (rsfsu_confExtMix) External Mixer LO Level (rsfsu_confExtMixerLOLevel) External Mixer Signal (rsfsu_confExtMixSignal) External Mixer Parameters (rsfsu_confExtMixParameters) Default Conversion Loss (rsfsu_confDefConvLoss)

## FSU driver history

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		<ul style="list-style-type: none"> <li>Conversion Loss Table (rsfsu_confExtMixLossTab)</li> <li>Conversion Loss Table Delete (rsfsu_confExtMixLossTabDelete)</li> <li>Sweep Group <ul style="list-style-type: none"> <li>Sweep Time (rsfsu_confSweepTime)</li> <li>Sweep Time Auto (rsfsu_confSweepTimeAuto)</li> </ul> </li> <li>System Setup Group <ul style="list-style-type: none"> <li>Reference Oscillator (rsfsu_confReferenceOsc)</li> <li>Generate Transducer Factor (rsfsu_confTransducerFactor)</li> </ul> </li> <li>Tracking Generator Mode <ul style="list-style-type: none"> <li>Tracking Generator Ext Select (rsfsu_confTrackExtSel)</li> <li>Tracking Generator Ext Src Ref (rsfsu_confTrackExtSrcRef)</li> </ul> </li> <li>Vector Signal Analysis Mode <ul style="list-style-type: none"> <li>Config Group - Analog Demod <ul style="list-style-type: none"> <li>Analog Demodulation Filter (rsfsu_confVSAMDemodFilt)</li> <li>FM Analog Demodulation <ul style="list-style-type: none"> <li>FM Demodulation (rsfsu_confFMDemod)</li> <li>FM Demodulation Output Filter (rsfsu_confFMDemodFilt)</li> <li>FM Demodulation LowPass Filter Auto (rsfsu_confFMDemodLPFiltAuto)</li> <li>FM Demodulation Output Range (rsfsu_confFMDemodRange)</li> <li>FM Demodulation Output Range Auto (rsfsu_confFMDemodRangeAuto)</li> </ul> </li> </ul> </li> </ul> </li> <li>GSM / EDGE MS/BTS Analysis Mode <ul style="list-style-type: none"> <li>GSM Burst Zoom Transition Number <ul style="list-style-type: none"> <li>(rsfsu_confGSMBurstZoomTransitionNumber)</li> </ul> </li> <li>GSM Multi Carrier Mode State (rsfsu_confGSMMultiCarrierModeState)</li> </ul> </li> <li>Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS <ul style="list-style-type: none"> <li>Configure WCDPower Measurement (rsfsu_confWCDPMeas)</li> <li>WCDP Measurement Mode (rsfsu_confWCDPMeasMode)</li> </ul> </li> <li>CDP Measurement Setting <ul style="list-style-type: none"> <li>CDP RRC Filter (rsfsu_confCDPRrcFilter)</li> <li>CDP Eliminate Tail Chips (rsfsu_confCDPEliminateTailChips)</li> <li>CDP Slot Difference (rsfsu_confCDPSlotDifference)</li> <li>CDP Slot Sets Count (rsfsu_confCDPSlotSetsCount)</li> <li>CDP Slot Set To Analyze (rsfsu_actCDPSlotSetToAnalyze)</li> <li>CDP Scrambling Code (rsfsu_confCDPLCode)</li> <li>CDP Long Code Mode (rsfsu_confCDPLCodeMode)</li> <li>CDP Constellation Parameter B <ul style="list-style-type: none"> <li>(rsfsu_confCDPConstellationParameterB)</li> </ul> </li> <li>CDP Power Control (rsfsu_confCDPPControl)</li> </ul> </li> <li>WCDP Channel Table (MS) <ul style="list-style-type: none"> <li>WCDP MS Channel HS-DPCCH (rsfsu_confWCDPMSChHSDPCCH)</li> </ul> </li> <li>WCDP Channel Table (BTS) <ul style="list-style-type: none"> <li>WCDP Channel Table (rsfsu_confWCDPChTable)</li> <li>WCDP Channel Table File (rsfsu_confWCDPChTableFile)</li> <li>WCDP Channel Table Name (rsfsu_confWCDPChTableName)</li> <li>WCDP Channel Table Copy (rsfsu_confWCDPChTableCopy)</li> <li>WCDP Channel Table Delete (rsfsu_confWCDPChTableDelete)</li> <li>WCDP Channel Table Comment (rsfsu_confWCDPChTableComment)</li> <li>WCDP Channel Table Data (rsfsu_confWCDPChTableData)</li> <li>WCDP Channel Table Catalog (rsfsu_confWCDPChTableCatalog)</li> </ul> </li> <li>Spurious Emissions <ul style="list-style-type: none"> <li>SE Resolution Bandwidth (rsfsu_confSEResolutionBW)</li> <li>SE Video Bandwidth (rsfsu_confSEVideoBW)</li> <li>SE Break Sweep (rsfsu_confSEBreakSweep)</li> <li>SE Detector (rsfsu_confSEDetector)</li> <li>SE Filter (rsfsu_confSEFilter)</li> <li>SE Start And Stop Freq (rsfsu_confSEStartStopFrq)</li> <li>SE Attenuator (rsfsu_confSEAtt)</li> </ul> </li> </ul>

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		<p>SE Attenuator Auto (rsfsu_confSEAttAuto)  SE Pre-amplifier (rsfsu_confSEPreamplifier)  SE Sweep Points (rsfsu_confSESweepPoints)  SE Ref Level (rsfsu_confSERefLevel)  SE Sweep Mode (rsfsu_confSESweepMode)  SE Sweep Time (rsfsu_confSESweepTime)  SE Sweep Time Auto (rsfsu_confSESweepTimeAuto)  SE Transducer (rsfsu_confSETransducer)  SE Delete Range (rsfsu_confSEDeleteRange)  SE Search Peaks (rsfsu_confSESearchPeaks)  Action/Status Functions  General Device Settings  Marker Group  Delta Marker Link (rsfsu_actDMarkLink)  Trigger Group  Continue Measurement (rsfsu_actContinueMeasurement)  File Group  File Decimal Separator (rsfsu_confFileDecSep)  Store Trace to File (rsfsu_actSAMStoreTraceToFile)  Store Spurious Emissions to File (rsfsu_actSAMStoreSEToFile)  File Directory Path (rsfsu_actFileCatPath)  Signal Analysis Mode  Measure Group  Channel Power / ACP  Adapt to Signal  Channel Power Start Slot (rsfsu_actSAMChannelPowerStartSlot)  Channel Power Stop Slot (rsfsu_actSAMChannelPowerStopSlot)  Channel Power Autorange (rsfsu_actSAMChannelPowerAutorange)  Channel Power Autorange Result  (rsfsu_actSAMChannelPowerAutorangeResult)  Channel Power Auto Adjust (rsfsu_actSAMChannelPowerAutoAdjust)  Channel Power Auto Adjust Result  (rsfsu_actSAMChannelPowerAutoAdjustResult)  GSM / EDGE MS/BTS Analysis Mode  GSM Burst Section (rsfsu_actGSMBurstSection)  Lines Group  SEM Limit Line Check (rsfsu_actSEMLimitLineCheck)  Spurious Emissions  SE Send Trigger (rsfsu_actSESendTrigger)  SE Send Trigger And Wait for OPC (rsfsu_actSESendTrgWopc)  Data Functions  Read Trace IQ Data (rsfsu_dataReadTraceIQ)  Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS  Read WCDP Trace Data (rsfsu_dataReadTraceWCDP)  Spurious Emissions Measurement  SE Measurement Results (rsfsu_dataSEMeasurementResults)  - Code maintenance:  - I/O conversion specification fixed:  Input: "%le" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean  Output: "%.12f" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean  - System locale are set to default "C"  - Renamed functions (old prototypes are moved to compatibility group):  Channel Power Trigger Spacing (rsfsu_confSAMTrigSpacing)  changed to Channel Power Channel Spacing  (rsfsu_confSAMChannelSpacing)  Channel Power Trigger Count (rsfsu_confSAMTrigCount)  changed to Channel Power Carrier Count (rsfsu_confSAMCarrierCount)</p>

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		<ul style="list-style-type: none"> <li>- Description of Channel Power Type parameter changed, code improved Channel Power Meas Mode (rsfsu_confSAMMarkChPowMeas) Adjust Channel Power Settings (rsfsu_actSAMCPSet) Get Channel Power Value (rsfsu_actSAMMarkPowerValueExt) Get Occupied Bandwidth Value (rsfsu_actSAMMarkPowerBandValue)</li> <li>- Parameter range extended, description changed Channel Power Reference Manual (rsfsu_confSAMReferenceMan) Resolution BW (rsfsu_confResbw)</li> <li>- Trace IQ Group moved in the FP to Trace Group</li> <li>- Fixed code (description) Channel Power Standard (rsfsu_confSAMMarkChPowChanStandard) Channel Power Auto Adjust Result (rsfsu_actSAMChannelPowerAutoAdjustResult) Channel Power Auto Adjust Result (rsfsu_actSAMChannelPowerAutorangeResult) Get Peaks Values (rsfsu_getPeaksValues) Read C2k CDP Trace Data (rsfsu_dataReadTraceC2kCDP) Read Burst Values (rsfsu_dataReadBurst)</li> <li>- New additional functions SE Start Measurement (rsfsu_actSEStartMeasurement) SE Start Measurement And Wait for OPC (rsfsu_actSEStartMeasurementWopc) SE Stop Measurement (rsfsu_SEStopMeasurement)</li> </ul>
1.6	09/2004	<p>Modifications:</p> <ul style="list-style-type: none"> <li>- New functions: rsfsu_actHCopyToFile</li> <li>- Fixed functions: rsfsu_confNoiseGainTraceSettings rsfsu_confNoiseTraceSettings rsfsu_confListPwrState rsfsu_confNoiseLossInputSettings rsfsu_confNoiseLossOutputSettings rsfsu_confNoiseRefLevel rsfsu_confSAMMarkChPowMeas rsfsu_setStatusRegister</li> </ul>
1.5	04/2004	<p>Driver update for FSU Spectrum Analyzer ( Firmware 2.31/3.31 Support for FSU3, FSU8, FSU26, FSU46 and FSU50</p> <p>List of updated options</p> <ul style="list-style-type: none"> <li>- K5 GSM/EDGE (2.30/3.30)</li> <li>- K72 3GPP FDD Base Station Test (2.30/3.30)</li> <li>- K73 3GPP FDD User Equipment Test (2.30/3.30)</li> <li>- K82 cdma2000 Base Station Test (2.30/3.30)</li> </ul> <p>List of new options:</p> <ul style="list-style-type: none"> <li>- K9 Power sensor measurements</li> <li>- K30 Noise Figure and Gain Measurments (2.30/3.30)</li> <li>- K74 3GPP HSDPA Base Station Test (2.30/3.30)</li> <li>- K76 TD-SCDMA Base Station Test (2.30/3.30)</li> <li>- K77 TD-SCDMA Mobile Station Test (2.30/3.30)</li> <li>- K83 cdma2000/1xEV-DV Mobile Station Test (2.30/3.30)</li> <li>- K84 1xEV-DO Base Station Test (2.30/3.30)</li> <li>- K85 1xEV-DO Mobile Station Test (2.30/3.30)</li> </ul> <p>--- General Issues ---</p> <ul style="list-style-type: none"> <li>- Status checking added to the functions where it was missing rsfsu_sysStatus)</li> <li>- Problem with precision of values fixed (loss of digits)</li> </ul>

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		<p>Formatting functions uses for double values "%Lf" Scanning functions uses for double values "%Le"</p> <p>--- Updated functions (Base + Misc) ---</p> <p>Channel Power Trigger Count (rsfsu_confSAMTrigCount) - value range extended</p> <p>Channel Power Standard (rsfsu_confSAMMarkChPowChanStandard) - new WLAN standards added</p> <p>Coupling Settings (rsfsu_confCoupExt) - Filter Type range extended</p> <p>Analog Demodulation Type (rsfsu_confVSAMADemodType) - PM modulation added</p> <p>Get Analog Demod Value (rsfsu_actVSAMMarkerADemod) - AM and PM modulation added</p> <p>Signal Statistics (rsfsu_confSAMSigStat) - added additional parameter's items</p> <p>Get N dB Down Marker Value (rsfsu_actSAMMarkNdBDValue) - Also available in zero span mode</p> <p>Emulation (rsfsu_confEmulation) - parameter values added</p> <p>Analog Demodulation Demod BW (rsfsu_confVSAMDemodBW) - parameter values added</p> <p>Analog Demodulation BW (rsfsu_setADEMBandwidth) - parameter values added</p> <p>Analog Demod RF Param (rsfsu_confVSAMADemodRFParm) - parameter values added</p> <p>Limit Lines State (rsfsu_confLimitLineState) - added 'comment' parameter value</p> <p>Limit Lines Parameters (rsfsu_confLimitLineParamExt) - moved to obsolete functions</p> <p>Set Limit Lines Offset (rsfsu_actSetLimitLinesOffset) - moved to obsolete functions</p> <p>Marker Opt (rsfsu_confMarkOpt) - fixed control description</p> <p>--- New functions (Base + Misc) ---</p> <p>Trigger Delay Compensation (rsfsu_confTrgDelayComp) Get Sweep Count (rsfsu_getSweepCount) Frequency Axis Mode (rsfsu_confFreqAxisMode) Setup Transducer Ref Level Adj (rsfsu_confTransducerRefLevAdj) Analog Demod Zero Phase Ref Point (rsfsu_confVSAMADemodZeroPhase) Analog Demod Phase Wrap (rsfsu_confVSAMADemodPhaseWrap) Analog Demod PM Units (rsfsu_confVSAMADemodPMUnits) Limit Lines Data (rsfsu_confLimitLineData) Limit Lines Shift (rsfsu_confLimitLineShift) Limit Lines Switch (rsfsu_confLimitLineSwitch) Limit Lines Trace (rsfsu_confLimitLineTrace) Limit Lines Mode (rsfsu_confLimitLineMode) Limit Lines Units (rsfsu_confLimitLineUnits) Limit Lines Domain (rsfsu_confLimitLineDomain) Limit Lines Offset (rsfsu_confLimitLineOffset) Limit Lines Margin (rsfsu_confLimitLineMargin) Limit Lines Threshold (rsfsu_confLimitLineThreshold) Limit Check Result Clear (rsfsu_actLimitCheckClear) Limit Lines Measurement Type (rsfsu_confLimitLineMeasType)</p> <p>--- Renamed (thus new) functions (obsolete group) ---</p>

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		<p>CDP Slot (rsfsu_confCDPSlot)  - formerly known as CDP CPICH Slot  - option added</p> <p>CDP PN Offset (rsfsu_confCDPPNOffset)  - formerly known as CDP C2k PN Offset (rsfsu_confC2kCDPPNOffset)  - created alias, option added</p> <p>CDP IQ Length (rsfsu_confCDPIQLength)  - formerly known as CDP C2k IQ Length (rsfsu_confC2kCDPIQLength)  - created alias, option added</p> <p>CDP Order (rsfsu_confCDPOrder)  - formerly known as CDP C2k Order (rsfsu_confC2kCDPOrder)  - created alias, option added</p> <p>CDP Timing And Phase Offset (rsfsu_confCDPTPM)  - formerly known as CDP C2k Timing And Phase Offs  (rsfsu_confC2kCDPTPM)  - created alias, option added  --- Updated functions (K5) ---</p> <p>MS Set Channel (rsfsu_actMSChannel)  - description changed</p> <p>--- New functions (K5) ---</p> <p>GSM Sync Search (rsfsu_confGSMSyncSearch)  GSM Burst Search (rsfsu_confGSMBurstSearch)  GSM Burst Search Threshold (rsfsu_confGSMBurstSearchThreshold)  GSM Burst Time Meas High Resolution  (rsfsu_confGSMBurstTimeMeasHighResolution)  GSM Burst Meas Filter (rsfsu_confGSMBurstMeasFilter)  GSM Trigger Free Run (rsfsu_actGSMTriggerFreeRun)  Read Multi Frame Data (rsfsu_readMultiFrameData)</p> <p>--- Updated functions (K72/73/K74) ---</p> <p>WCDP Channel Table Data (rsfsu_confWCDPChTableData)  - channel type (former pitch flag) is improved</p> <p>Read WCDP Trace Data (rsfsu_dataReadTraceWCDP)  - CWCDp and ABITstream added, functionality improved</p> <p>Read WCDMA Trace Data (rsfsu_dataReadTraceWCDMA)  - description update, functionality improved</p> <p>WCDP Measurement Mode (rsfsu_confWCDPMeasMode)  - new modes added, description changed</p> <p>Get WCDP Measurement (rsfsu_actWCDPMarkMeas)  - new meas added, description changed</p> <p>WCDPower Mode (rsfsu_actWCDPMode)  - option added, description changed</p> <p>WCDPower MS Mode (rsfsu_actWCDPMSMode)  - option added, description changed</p> <p>--- New functions (K72/73/K74) ---</p> <p>CDP Frame to Analyze (rsfsu_confCDPFrameAnalyze)  SEM Limit Line Check (rsfsu_actSEMLimitLineCheck)  CDP Analysis Base (rsfsu_confCDPAnalysisBase)  CDP Overview Display (rsfsu_confCDPOverviewDisplay)</p> <p>--- Updated functions (K82/K83/K84/K85) ---</p> <p>Get C2k CDP Measurement (rsfsu_actC2kCDPMarkMeas)  - description changed</p> <p>Configure C2k Band Class (rsfsu_confC2kBandClass)  - additional classes added, skipped optional "[:BTS]", option added</p>



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		Configure C2k Measurement (rsfsu_confC2kCDPMeas) - skipped optional "[:BTS]", option added, parameter's item added CDP Measurement Mode (rsfsu_confC2kCDPMeasMode) - option added, parameter items added SEM Limit Line (rsfsu_confSEMLimitLine) - option added CDP Marker To (rsfsu_actCDPMarkTo) - option added CDP C2k Channel Table File (rsfsu_confC2kCDPChTableFile) - option added CDP C2k Channel Table Name (rsfsu_confC2kCDPChTableName) - option added CDP C2k Channel Table Data (rsfsu_confC2kCDPChTableData) - option added, parameters adjusted for options CDP C2k Channel Table Comment (rsfsu_confC2kCDPChTableComment) - option added CDP C2k Channel Table Copy (rsfsu_confC2kCDPChTableCopy) - option added CDP C2k Channel Table Delete (rsfsu_confC2kCDPChTableDelete) - option added CDP C2k Channel Table Catalog (rsfsu_confC2kCDPChTableCatalog) - option added CDP C2k Channel Table (rsfsu_confC2kCDPChTable) - option added C2k CDPower Mode (rsfsu_actC2kCDPMode) - description changed CDP Inactive Channel Treshold (rsfsu_confCDPICT) - option added CDP Side Band (rsfsu_confCDPSBand) - option added CDP Level Auto Adjust (rsfsu_actCDPAutoAdj) - option added CDP Code Number (rsfsu_confCDPCodeNum) - option added CDP Signal Mapping (rsfsu_confCDPSigMap) - option added CDP Spreading Factor (rsfsu_confCDPSFactor) - option added CDP Normalize (rsfsu_confCDPNormalize) - option added CDP Q Invert (rsfsu_confCDPQInvert) - option added CDP Preference (rsfsu_confCDPPref) - option added, additional item added CDP C2k IQ Length (rsfsu_confC2kCDPIQLength) - option added, range checking changed CDP C2k Order (rsfsu_confC2kCDPOrder) - option added CDP C2k Timing And Phase Offs (rsfsu_confC2kCDPTPM) - option added Read C2k Trace Data (rsfsu_dataReadTraceC2k) - option added, functionality improved  --- New functions (K82/K83/K84/K85) --- Read C2k CDP Trace Data (rsfsu_dataReadTraceC2kCDP) CDP C2k Channel Table Restore (rsfsu_confC2kCDPChTableRestore) C2k CDPower MS Mode (rsfsu_actC2kCDPMMSMode)

## FSU driver history

Revision	Date	Note
		<p>CDP Long Code Mask (rsfsu_confCDPLCodeMask)            CDP Long Code Offset (rsfsu_confCDPLCodeOffset)            Get 1xEV-DO CDP Measurement (rsfsu_actEVDOCDPMarkMeas)            Get 1xEV-DO CDP MS Measurement (rsfsu_actEVDOCDPMSMarkMeas)            PVT Limit Line (rsfsu_confPVTLimitLine)            CDP RF Slot (rsfsu_confCDPRFSlot)            1xEV-DO CDPower Mode (rsfsu_actEVDOCDPMode)            1xEV-DO CDPower MS Mode (rsfsu_actEVDOCDPMSMode)            CDP Signal Mapping Mode (rsfsu_confCDPSigMapMode)            CDP Channel Type (rsfsu_confCDPChannelType)            CDP Averaging (rsfsu_confCDPAveraging)            CDP Operation Mode (rsfsu_confCDPOperationMode)</p> <p>--- Updated functions (K76/K77) ---            CDP Scrambling Code (rsfsu_confCDPLCode)            - option added</p> <p>--- New functions (K76/K77) ---            Get TD-SCDMA CDP Measurement (rsfsu_actTDSCDMACDPMarkMeas)            Configure CDP Measurement (rsfsu_confCDPMeas)            CDP Channel Table Order (rsfsu_confCDPChTableOrder)            CDP Channel Table (rsfsu_confCDPChTable)            CDP Channel Table File (rsfsu_confCDPChTableFile)            CDP Channel Table Name (rsfsu_confCDPChTableName)            CDP Channel Table Copy (rsfsu_confCDPChTableCopy)            CDP Channel Table Delete (rsfsu_confCDPChTableDelete)            CDP Channel Table Comment (rsfsu_confCDPChTableComment)            CDP Channel Table Data (rsfsu_confCDPChTableData)            CDP Channel Table Catalog (rsfsu_confCDPChTableCatalog)            CDP Channel Table Midamble Shift (rsfsu_confCDPChTableMidambleShift)            CDP Switching Point (rsfsu_confCDPSwitchingPoint)            CDP Subframes (rsfsu_confCDPSubframes)            TD-SCDMA CDPower Mode (rsfsu_actTDSCDMACDPMode)            TD-SCDMA CDPower MS Mode (rsfsu_actTDSCDMACDPMSMode)            CDP Standard (rsfsu_confCDPStandard)            CDP Midamble Shift (rsfsu_confCDPMidambleShift)            Read CDP Trace Data (rsfsu_dataReadTraceCDP)</p> <p>--- New functions (K9) ---            PWR Meter Frequency (rsfsu_confPMetFrequency)            PWR Meter Frequency Coupling (rsfsu_confPMetFrequencyCoupling)            PWR Meter Units (rsfsu_confPMetUnits)            PWR Meter Meas Time (rsfsu_confPMetMeasTime)            PWR Meter Result Display (rsfsu_confPMetResultDisplay)            PWR Meter State (rsfsu_actPMetState)            PWR Meter Sensor Zeroing (rsfsu_actPMetSensorZeroing)            PWR Meter Reference Value (rsfsu_actPMetReferenceValue)            Fetch PWR Meter Result (rsfsu_dataFetchPMetResult)            Read PWR Meter Result (rsfsu_dataReadPMetResult)</p> <p>--- New functions (K30) ---            Noise Measurement Mode (rsfsu_actNoiseMeasMode)            Fetch Noise Measurement Result (Array) (rsfsu_dataFetchNoiseMeasArray)            Fetch Noise Measurement Result (Scalar) (rsfsu_dataFetchNoiseMeasScalar)            Noise Frequency Measurement (rsfsu_confNoiseFrequencyMeasurement)            Noise Frequency (rsfsu_confNoiseFrequency)            Noise Start Frequency (rsfsu_confNoiseStartFrequency)</p>

<b>FSU driver history</b>		
<b>Revision</b>	<b>Date</b>	<b>Note</b>
		Noise Stop Frequency (rsfsu_confNoiseStopFrequency) Noise Step Frequency (rsfsu_confNoiseStepFrequency) Noise Frequency Table (rsfsu_confNoiseFrequencyTable) Noise Fixed IF Frequency (rsfsu_confNoiseFixedIFFrequency) Noise LO Frequency (rsfsu_confNoiseLOFrequency) Noise Image Rejection (rsfsu_confNoiseImageRejection) Noise DUT Type (rsfsu_confNoiseDUTType) Noise 2nd Stage Correction (rsfsu_confNoise2ndStageCorrection) Noise 2nd Stage Correction State (rsfsu_confNoise2ndStageCorrectionState) Noise Resolution Bandwidth (rsfsu_confNoiseRBW) Noise Sweep Time (rsfsu_confNoiseSweepTime) Noise DUT Settling Time (rsfsu_confNoiseDUTSettlingTime) Noise DUT Range (rsfsu_confNoiseDUTRange) Noise Average (rsfsu_confNoiseAverage) Noise RF Attenuation (rsfsu_confNoiseRFAttenuation) Noise Ref Level (rsfsu_confNoiseRefLevel) Noise Pre-selector (rsfsu_confNoisePreselector) Noise Pre-amplifier (rsfsu_confNoisePreamplifier) Noise Generator Automatic Control (rsfsu_confNoiseGeneratorAuto) Noise Generator Settings (rsfsu_confNoiseGeneratorSettings) Noise Generator Level (rsfsu_confNoiseGeneratorLevel) Noise Generator Frequency (rsfsu_confNoiseGeneratorFrequency) Noise ENR Settings (rsfsu_confNoiseENRSettings) Noise ENR Table (rsfsu_confNoiseENRTable) Noise Loss Input Settings (rsfsu_confNoiseLossInputSettings) Noise Loss Input Table (rsfsu_confNoiseLossInputTable) Noise Loss Output Settings (rsfsu_confNoiseLossOutputSettings) Noise Loss Output Table (rsfsu_confNoiseLossOutputTable) Noise Trace Display (rsfsu_confNoiseTraceDisplay) Noise Trace Settings (rsfsu_confNoiseTraceSettings) Noise Gain Trace Settings (rsfsu_confNoiseGainTraceSettings)
1.4.3	01/2004	Modifications: - Added Remote-control command(s) to each FP function description - Sample rate value range changed rsfsu_confTraceIQ and rsfsu_confTraceIQSrate) - File transfer from FSU to the PC and vice versa: rsfsu_readToFile rsfsu_writeFromFile
1.4.2	11/2003	Modifications: Changed function: rsfsu_confTrg
1.4.1	06/2003	Modifications: Modified structure of the FP Tree -For Agilent VISA Version L01 or higer and Agilent GPIB board added "/n" in I/O functions -The associated measurement window can be selected with the numeric suffix of comand TRACe<1 2>. Global variable is added to allow select measurement window with the existing trace data functions. -Changed functions are: rsfsu_confSetActiveWindow rsfsu_actSAMCopyTrace rsfsu_dataReadTrace rsfsu_dataWriteTrace rsfsu_dataReadTraceWCDMA -New functions are: rsfsu_dataReadTraceWCDP

FSU driver history		
Revision	Date	Note
		This driver supports the options: B4, B9, B10, B12 B16, B25, K5, K7, K8, K72, K73, K82
1.4	04/2003	<p>Modifications:</p> <ul style="list-style-type: none"> <li>- Get Peaks Values (rsfsu_getPeaksValues) fixed command string</li> <li>- Marker Search Parameter (rsfsu_confSAMMarkSearchParamExt) Range checkig for Search Limits is skipped.</li> <li>- New function: Marker Search Limits (rsfsu_confSAMMarkSearchLimits)</li> </ul> <p>This driver supports the options: B4, B9, B10, B12 B16, B25, K5, K7, K8, K72, K73, K82</p>
1.3.2	02/2'003	<p>Modifications:</p> <ul style="list-style-type: none"> <li>- Changed help texts of FSEx compatibility functions in fp file</li> </ul> <p>This driver supports the options: B4, B9, B10, B12 B16, B25, K5, K7, K8, K72, K73, K82</p>
1.3.1	02/2003	<p>Modifications:</p> <ul style="list-style-type: none"> <li>- Fixed for use in earlier versions of VISA without TCPIP support</li> </ul> <p>This driver supports the options: B4, B9, B10, B12 B16, B25, K5, K7, K8, K72, K73, K82</p>
1.3	01/2003	<p>Modifications:</p> <p>Added support for K82 and new functions for K72/K73</p> <p>New functions:</p> <ul style="list-style-type: none"> <li>RF Input YIG Filter Temp Corr (rsfsu_setRFInYIGFilterTempCorr)</li> <li>Set Limit Line Spacing (rsfsu_actSetLimitLineSpacing)</li> <li>Set Param Limit Line Spacing (rsfsu_actSetParamLimitLineSpacing)</li> <li>Display Size (rsfsu_confDisplaySize)</li> <li>Emulation (rsfsu_confEmulation)</li> <li>Channel Power Trigger Spacing (rsfsu_confSAMTrigSpacing)</li> <li>Channel Power Trigger Count (rsfsu_confSAMTrigCount)</li> <li>Channel Power Reference Auto (rsfsu_confSAMReferenceAuto)</li> <li>Channel Power Reference Man (rsfsu_confSAMReferenceMan)</li> <li>Configure C2k Band Class (rsfsu_confC2kBandClass)</li> <li>CDP Power Control (rsfsu_confCDPPControl)</li> <li>Configure C2k Measurement (rsfsu_confC2kCDPMeas)</li> <li>CDP Measurement Mode (rsfsu_confC2kCDPMeasMode)</li> <li>CDP C2k PN Offset (rsfsu_confC2kCDPPNOffset)</li> <li>CDP C2k IQ Length (rsfsu_confC2kCDPIQLength)</li> <li>CDP C2k Order (rsfsu_confC2kCDPOrder)</li> <li>CDP C2k Timing And Phase Offs (rsfsu_confC2kCDPTPM)</li> <li>CDP C2k Channel Table (rsfsu_confC2kCDPChTable)</li> <li>CDP C2k Channel Table File (rsfsu_confC2kCDPChTableFile)</li> <li>CDP C2k Channel Table Name (rsfsu_confC2kCDPChTableName)</li> <li>CDP C2k Channel Table Copy (rsfsu_confC2kCDPChTableCopy)</li> <li>CDP C2k Channel Table Delete (rsfsu_confC2kCDPChTableDelete)</li> <li>CDP C2k Channel Table Comment fsu_confC2kCDPChTableComment)</li> <li>CDP C2k Channel Table Data (rsfsu_confC2kCDPChTableData)</li> <li>CDP C2k Channel Table Catalog (rsfsu_confC2kCDPChTableCatalog)</li> <li>C2k CDPower Mode (rsfsu_actC2kCDPMode)</li> <li>Get C2k CDP Measurement (rsfsu_actC2kCDPMarkMeas)</li> </ul> <p>Modified functions:</p> <ul style="list-style-type: none"> <li>Channel Power Meas Mode (rsfsu_confSAMMarkChPowMeas)</li> <li>Level Range (rsfsu_confLevelRange)</li> <li>CDP Inactive Channel Treshold (rsfsu_confCDPICT)</li> <li>CDP Side Band (rsfsu_confCDPSBand)</li> <li>CDP Spreading Factor (rsfsu_confCDPSFactor)</li> </ul>

FSU driver history		
Revision	Date	Note
		CDP Code Number (rsfsu_confCDPCodeNum) CDP CPICH Slot (rsfsu_confCDPSlot) CDP Normalize (rsfsu_confCDPNormalize) CDP Q Invert (rsfsu_confCDPQInvert) CDP Antenna Type (rsfsu_confCDPAntennaType) Get Channel Power Value (rsfsu_actSAMMarkPowerValueExt) Adjust Channel Power Settings (rsfsu_actSAMCPSet) MS Set Channel (rsfsu_actMSChannel) CDP Level Auto Adjust (rsfsu_actCDPAutoAdj) CDP Marker To (rsfsu_actCDPMarkTo) --- Get Module Info (rsfsu_actServiceModuleInfo) Display Update (rsfsu_dispUpdate) Trace I/Q Sampling Rate (rsfsu_confTraceIQRate) Service Source Cal Signal (rsfsu_actServiceSourceCalSignal) Get WCDP MS Measurement (rsfsu_actWCDPMSMarkMeas) Read Trace I/Q Data (rsfsu_dataReadTraceIQ) Read Memory I/Q Data (rsfsu_dataReadMemoryIQ) Read Trace IQ Data From Mem (rsfsu_dataReadTraceIQFromMemory) This driver supports the options: B4, B9, B10, B12 B16, B25, K5, K7, K8, K72, K73, K82
1.2	09/2002	Modifications: - Removed #include <cstdint.h> from header file
1.1	07/2002	Modifications: - code changed to improve stability of the driver - fixed help texts in fp file - added functions to support new instrument and firmware options: rsfsu_setRFInYIGFilterState rsfsu_confDLines rsfsu_configureTraceIQAver rsfsu_confSweepPoints rsfsu_setVideoBWType rsfsu_setADEMBandwidth rsfsu_confTransducer rsfsu_confTransducerDef rsfsu_confExternGainCorrect rsfsu_configHardcopyColors rsfsu_confSAMDeltaMarkFixRefMax rsfsu_confTrackRefLevel rsfsu_confVSAMDemodMode rsfsu_confVSAMDisp rsfsu_confVSAMDigiDemodFilter rsfsu_confVSAMDigiSearchTime rsfsu_confVSAMADemod rsfsu_confVSAMADemodParam rsfsu_confVSAMADemodMeasTime rsfsu_confVSAMADemodType rsfsu_confVSAMADemodRFPParam rsfsu_confVSAMDemodBW rsfsu_confVSAMDemodZoom rsfsu_confVSAMDigiTrg rsfsu_confVSAMDigiSeqOffset rsfsu_confVSAMDigiSeqPulseOffset rsfsu_confGSMSamplesPerSymbol rsfsu_confWCDPMeas rsfsu_confWCDPMSMeas

## FSU driver history

Revision	Date	Note
		rsfsu_confWCDPMeasMode rsfsu_confCDPSetStd rsfsu_confCDPICT rsfsu_confCDPSBand rsfsu_confCDPSFactor rsfsu_confCDPCodeNum rsfsu_confCDPSlot rsfsu_confCDPLCode rsfsu_confCDPLType rsfsu_confCDPNormalize rsfsu_confCDPQInvert rsfsu_confCDPPref rsfsu_confCDPSyncType rsfsu_confCDPSigMap rsfsu_confCDPAntennaType rsfsu_confWCDPChTable rsfsu_confWCDPChTableFile rsfsu_confWCDPChTableName rsfsu_confWCDPChTableCopy rsfsu_confWCDPChTableDelete rsfsu_confWCDPChTableComment rsfsu_confWCDPChTableData rsfsu_confWCDPChTableCatalog rsfsu_confWCDPMSChTable rsfsu_confWCDPMSChTableFile rsfsu_confWCDPMSChTableName rsfsu_confWCDPMSChTableCopy rsfsu_confWCDPMSChTableDelete rsfsu_confWCDPMSChTableComment rsfsu_confWCDPMSChTableData rsfsu_confWCDPMSChTableCatalog rsfsu_confWCDPMSChEvaluation rsfsu_confBToothChannel rsfsu_confBToothPacketType rsfsu_confBToothAdjacentChannels rsfsu_confBTSamplesPerSymbol rsfsu_confBToothOutpPowerClass rsfsu_confBToothAveragePower rsfsu_confVSAMDigiSetSyncLap rsfsu_confBToothResBW rsfsu_confBToothViBW rsfsu_confBToothTrace rsfsu_confBToothTraceSelect rsfsu_confBToothDetector rsfsu_confBToothSweep rsfsu_confBToothSweepTime rsfsu_confSEMLimitLine rsfsu_getPowerOfSignalPulses rsfsu_searchPeaks rsfsu_getPeaksValues rsfsu_getPeaksCount rsfsu_actServiceModuleInfo rsfsu_actFileCat rsfsu_actVSAMMode rsfsu_actVSAMMarkerADemod rsfsu_getADemodResultValues rsfsu_getVSAMPParam

FSU driver history		
Revision	Date	Note
		rsfsu_getVSFMOffset rsfsu_actTVTriggerSrc rsfsu_actMSChannelMultiSlot rsfsu_actMSLimitRestore rsfsu_actGSModAccuracy rsfsu_actBToothMode rsfsu_actBToothMeasMode rsfsu_actVSBToothOutputPower rsfsu_actVSBToothParameter rsfsu_actVSBToothPowerControl rsfsu_actVSBToothPowerOfChannels rsfsu_actVSBToothException rsfsu_actVSBToothDM rsfsu_actVSBToothPercentageDev rsfsu_actVSBToothCarrierFreqParam rsfsu_actVSBToothPacketLength rsfsu_actVSBToothPacketType rsfsu_actWCDPMode rsfsu_actWCDPMSMode rsfsu_actCDPAutoAdj rsfsu_actCDPMarkTo rsfsu_actWCDPMarkMeas rsfsu_actWCDPMSMarkMeas rsfsu_dataReadTraceWCDMA rsfsu_dataReadBurstIQ rsfsu_dataFetchBurstIQ rsfsu_self_test_result rsfsu_dataReadBurstRef - functions modified to support new features rsfsu_confTrg rsfsu_confSAMMarkSearchParamExt rsfsu_confSAMMarkChPowChanStandard rsfsu_actSAMMarkPowerValueExt rsfsu_setStatusRegister rsfsu_getStatusRegister - function rsfsu_confTrackDisp splitted to two functions: rsfsu_confTrackRefLevel and rsfsu_confTrackRefPosition
1.0.	01/2001	Created based on FSP instrument driver "Rev 1.2, 03/2001, CVI 5.5.1"

## **LabWindows/CVI**

### **Additional Help**

The LabWindows/CVI instrument driver consists of a ZIP archive containing the driver sources. In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources.

## **VXIplug&play Instrument Driver for VEE, Visual Basic, Visual C++, Borland C++ etc.**

### **Additional Help**

In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources in the ~\VXIpnP\WinNT\rsfsu directory.

### **Additional Information**

For more information regarding the VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.



## Remote control via LAN

### Instrument Name and IP Address

In order to connect the instrument using VXI-11 or RSIB use the instrument name or the IP address.

#### Default Name of the Instrument

There is a default name for any instrument. If you are sure it has not been changed, you need not to find the name.

As **default** the name is composed of:

FSUx- (FSU3, FSU8, FSU26, FSU46 or FSU50)  
Serial number (on the rear panel of the instrument)

Example: FSU8-100165

#### To find the instrument name and IP address with a keyboard connected to the instrument

For XP (Firmware 3.xx):

Instrument name: Start => Settings =>Control Panel => System => Computer Name

IP Address: Start => Settings =>Network Connections =>  
Local Area Connection => Support

For NT (Firmware2.xx):

Instrument name: Start => Settings =>Control Panel => System => Network

IP Address: Start => Settings =>Control Panel => System => Network => Protocols =>  
TCP/IP Protocol => Properties

#### To find the IP Address without a Keyboard connected to the instrument

If you need the IP-Address of the instrument send a "ping" command in the command prompt window.

Example

**Ping** FSU8-100265

If you do not know the name, connect a keyboard and use the procedure above.

### VXI-11 Support

VXI-11 support since Firmware 3.6x (XP).

Use the instrument name or the IP address as **resourceName** in the rfsu\_init function.

Example      TCP/IP::FSU8-100265::INSTR  
              TCP/IP::192.168.1.33::INSTR

### RSIB Interface

This driver supports remote control via RSIB. For more information see application note [1EF47](#)

Use the instrument name or the IP address as **resourceName** in the rfsu\_init function.

Example      RSIB::FSU8-100265::INSTR or  
              RSIB::192.168.1.33::INSTR