



Agilent MXG Signal Generators

N5181A MXG Analog
N5182A MXG Vector
Configuration Guide



This guide is to assist in the ordering process for the MXG analog and vector signal generators.

Agilent N5181A MXG analog configuration steps

Step 1. Choose one frequency option (mandatory)

Order item	Description	Not compatible	Upgrade
N5181A-501	Frequency range from 250 kHz to 1 GHz	503,506	No
N5181A-503	Frequency range from 250 kHz to 3 GHz	501,506	No
N5181A-506	Frequency range from 250 kHz to 6 GHz	503,506	No

Step 2. Choose performance enhancement options

Order item	Description	Not compatible	Upgrade
N5181A-UNZ	Fast switching		No
N5181A-UNT	AM, FM, phase modulation		No
N5181A-UNU	Pulse modulation		No
N5181A-1EQ	Low power (< -100 dBm)		No
N5181A-006	Instrument security		Yes

Step 3. Choose input/output options

Order item	Description	Not compatible	Upgrade
N5181A-1EM	Move RF output to rear panel		No
N5181A-1ER	Flexible reference input (1 to 50 MHz)		Yes

Step 4. Choose accessories and documentation options

Order item	Description	Not compatible	Upgrade
N5181A-1CM	Rackmount kit	1CN, 1CP, 1CR	Yes
N5181A-1CN	Front handle kit	1CM, 1CP, 1CR	Yes
N5181A-1CP	Rackmount and front handle kit	1CM, 1CN, 1CR	Yes
N5181A-1CR	Rack slide kit	1CM, 1CN, 1CP	Yes
N5181A-CD1	CD-ROM containing the English documentation set, including user's guide, installation guide, programming guide, service guide, SCPI command reference, error messages, programming examples, and data sheets		Yes
N5181A-ABA	Printed copy of the English documentation set		Yes
N5181A-0BW	Service documentation, assembly level		Yes

Step 5. Choose warranty and calibration options

Order item	Description	Additional information
R-51B-001-3C	1 year Return-to-Agilent warranty extended to 3 years	
R-50C-011-3	Return to Agilent Calibration Upfront Support Plan 3 year coverage	
R-50C-016-3	Return to Agilent 17025 Calibration Upfront Support Plan	Must also order R1295A for service center installation.
R-50C-021-3	Return to Agilent Z540 Calibration Upfront Support Plan 3 year coverage	Must also order R1295A for service center installation.
R-52A-001-L	Perpetual license Agilent Commercial Calibration Software	Installed by factory
R-52A-002-L	Perpetual license Agilent ISO 17025 and ANSI Z540 Calibration software	Installed by factory
R-52A-001-3	3 year license Agilent Commercial Calibration Software	
R-52A-002-3	3 year license Agilent ISO 17025 and ANSI Z540 Calibration software	
N5181A-UK6	Commercial calibration certificate with test data	

Step 6. Choose start up assistance service options

Order item	Description
PS-S10	Remote scheduled assistance 1- 999 hours
PS-S20	Daily productivity assistance
PS-T10-ASG	Signal generator and source basics; .05 day Max. 8 students on site
PS-X10	Custom services to be qualified by Agilent

Product configuration includes country specific power cord.

Upgradeable options for the N5181A MXG analog signal generator

Order item	Description
N5181AK-006	Instrument security
N5181AK-1ER	Flexible reference input (1 to 50 MHz)
N5181A-1CM	Rackmount kit
N5181A-1CN	Front handle kit
N5181A-1CP	Rackmount and front handle kit
N5181A-1CR	Rack slide kit
N5181A-CD1	CD-ROM containing the English documentation set
N5181A-ABA	Printed copy of the English documentation set
N5181A-0BW	Service documentation, assembly level

Upgradeable options can be installed after the initial purchase of the signal generator.

Available options for the Agilent N5181A MXG analog signal generator

501	Frequency range from 250 kHz to 1 GHz
503	Frequency range from 250 kHz to 3 GHz
506	Frequency range from 250 kHz to 6 GHz
1EM	Move RF output to rear panel
UNU	Pulse modulation
UNZ	Fast switching
UNT	AM, FM, phase modulation
1EQ	Low power (<-110 dBm)
1ER	Flexible reference input (1-50 MHz)
006	Instrument security
UK6	Commercial calibration certificate with test data
ABA	Printed copy of the English documentation set
CD1	CD-ROM containing the English documentation set
0BW	Service documentation, assembly level
1CM	Rackmount kit
1CN	Front handle kit
1CP	Rackmount and front handle kit
1CR	Rack slide kit

Agilent N5182A MXG vector configuration steps

Step 1. Choose one frequency option (mandatory)

Order item	Description	Requires	Not compatible	Upgrade
N5182A-503	Frequency range from 250 kHz to 3 GHz		506	No
N5182A-506	Frequency range from 250 kHz to 6 GHz		503	No

Step 2. Choose performance enhancement options

Order item	Description	Requires	Not compatible	Upgrade
N5182A-UNZ	Fast switching			No
N5182A-UNT	AM, FM, phase modulation			No
N5182A-UNU	Pulse modulation			No
N5182A-UNV	Enhanced dynamic range	651, 652, or 654		No
N5182A-1EQ	Low power (< -110 dBm)			No
N5182A-006	Instrument security			Yes

Step 3. Choose baseband generator options

Order item	Description	Requires	Not compatible	Upgrade
N5182A-651	Internal baseband generator (30 Msa/s, 8 Msa)		652, 654	Yes
N5182A-652	Internal baseband generator (60 Msa/s, 8 Msa)		651, 654	Yes
N5182A-654	Internal baseband generator (125 Msa/s, 8 Msa)		651, 652	Yes
N5182A-019	Upgrade baseband generator memory to 64 Msa	651, 652, or 654		Yes

Step 4. Choose signal studio creation software

Order item	Description	Requires	Not compatible	Upgrade
N5182A-403	Calibrated AWGN	651, 652, or 654		Yes
N7600B *	Signal Studio for 3GPP W-CDMA	651, 652, or 654		Yes
N7601B *	Signal Studio for 3GPP2 CDMA	651, 652, or 654		Yes
N7615B *	Signal Studio for 802.16 OFDMA WIMAX	651, 652, or 654		Yes
N7617B *	Signal Studio for 802.11 WLAN	651, 652, or 654		Yes
N7612B *	Signal Studio for TD-SCDMA (Available soon)	651, 652, or 654		Yes
N7602B *	Signal Studio for GSM/EDGE (Available soon)	651, 652, or 654		Yes

* Signal Studio creation software can be ordered under the N5182A configuration. When Signal Studio fixed perpetual licenses are ordered under the N5182A configuration, the license will be installed by the factory.

Step 5. Choose input/output options

Order item	Description	Requires	Not compatible	Upgrade
N5182A-1EM	Move RF output to rear panel			No
N5182A-1EL	Differential I/Q outputs			Yes
N5182A-1ER	Flexible reference input (1-50 MHz)			Yes

Step 6. Choose accessories and documentation options

Order item	Description	Not compatible	Upgrade
N5182A-1CM	Rackmount kit	1CN, 1CP, 1CR	Yes
N5182A-1CN	Front handle kit	1CM, 1CP, 1CR	Yes
N5182A-1CP	Rackmount and front handle kit	1CM, 1CN, 1CR	Yes
N5182A-1CR	Rack slide kit	1CM, 1CN, 1CP	Yes
N5182A-CD1	CD-ROM containing the English documentation set, including user's guide, installation guide, programming guide, service guide, SCPI command reference, error messages, programming examples, and data sheets		Yes
N5182A-ABA	Printed copy of the English documentation set		Yes
N5182A-0BW	Service documentation, assembly level		Yes

Step 7. Choose warranty and calibration options

Order item	Description	Additional information
R-51B-001-3C	1 year Return-to-Agilent warranty extended to 3 years	
R-50C-011-3	Return to Agilent Calibration Upfront Support Plan 3 year coverage	
R-50C-016-3	Return to Agilent 17025 Calibration Upfront Support Plan	Must also order R1295A for service center installation.
R-50C-021-3	Return to Agilent Z540 Calibration Upfront Support Plan 3 year coverage	Must also order R1295A for service center installation.
R-52A-001-L	Perpetual license Agilent Commercial Calibration Software	Installed by factory
R-52A-002-L	Perpetual license Agilent ISO 17025 and ANSI Z540 Calibration software	Installed by factory
R-52A-001-3	3 year license Agilent Commercial Calibration Software	
R-52A-002-3	3 year license Agilent ISO 17025 and ANSI Z540 Calibration software	
N5182A-UK6	Commercial calibration certificate with test data	

Step 8. Choose start up assistance options

Order item	Description
PS-S10	Remote scheduled assistance 1-999 hours
PS-S20	Daily productivity assistance
PS-T10-ASG	Signal generator and source basics; .05 day Max. 8 students on site
PS-X10	Custom services to be qualified by Agilent

Product configuration includes country specific power cord.

Upgradeable options for the N5182A MXG vector signal generator

Order item	Description
N5182AK-006	Instrument security
N5182AK-1ER	Flexible reference Input (1-50 MHz)
N5182AK-651	Internal baseband generator (30 Msa/s, 8 Msa)
N5182AK-652	Internal baseband generator (60 Msa/s, 8 Msa)
N5182AK-654	Internal baseband generator (125 Msa/s, 8 Msa)
N5182AK-019	Upgrade baseband generator memory to 64 Msa
N5182AK-1EL	Differential I/Q outputs
N5182AK-403	Calibrated AWGN
N5182A-1CM	Rackmount kit
N5182A-1CN	Front handle kit
N5182A-1CP	Rackmount and front handle kit
N5182A-1CR	Rack slide kit
N5182A-CD1	CD-ROM containing the English documentation set
N5182A-ABA	Printed copy of the English documentation set
N5182A-0BW	Service documentation, assembly level

Upgradeable options can be installed after the initial purchase of the signal generator.

Available options for the Agilent N5182A MXG vector signal generator

501	Frequency range from 250 kHz to 1 GHz
503	Frequency range from 250 kHz to 3 GHz
506	Frequency range from 250 kHz to 6 GHz
1EM	Move RF output to rear panel
UNU	Pulse modulation
UNZ	Fast switching
UNT	AM, FM, phase modulation
1EQ	Low power (< -110 dBm)
1ER	Flexible reference input (1 -50 MHz)
006	Instrument security
UK6	Commercial calibration certificate with test data
ABA	Printed copy of the English documentation set
CD1	CD-ROM containing the English documentation set
0BW	Service documentation, assembly level
1CM	Rackmount kit
1CN	Front handle kit
1CP	Rackmount and front handle kit
1CR	Rack slide kit

Web resources

For additional product information, visit the Agilent MXG web page:

www.agilent.com/find/mxg

For information about renting, leasing or financing test equipment from Agilent, visit:

www.agilent.com/find/buyalternatives

Remove all doubt

Without a doubt, our repair and calibration services will get your equipment back to performing like new. Without a doubt, we will get it back to you fast and when promised. We help you get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts, drawing from our unique access to the factory experts when necessary. This means that you will always have the utmost confidence in your measurements, so remove all doubt – use Agilent repair and calibration services for your instruments.

Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance, onsite education and training, as well as design, system integration, and project management.

For more information on repair and calibration services, go to:

www.agilent.com/find/removealldoubt



Agilent Email Updates

www.agilent.com/find/emailupdates

Get the latest information on the products and applications you select.

Agilent
Open 

LXI

www.agilent.com/find/open

Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of system-ready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.

www.agilent.com

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Phone or Fax

United States:

(tel) 800 829 4444

(fax) 800 829 4433

Canada:

(tel) 877 894 4414

(fax) 800 746 4866

China:

(tel) 800 810 0189

(fax) 800 820 2816

Europe:

(tel) 31 20 547 2111

Japan:

(tel) (81) 426 56 7832

(fax) (81) 426 56 7840

Korea:

(tel) (080) 769 0800

(fax) (080)769 0900

Latin America:

(tel) (305) 269 7500

Taiwan:

(tel) 0800 047 866

(fax) 0800 286 331

Other Asia Pacific Countries:

(tel) (65) 6375 8100

(fax) (65) 6755 0042

Email: tm_ap@agilent.com

Revised: 08/03/06

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2006
Printed in USA, September 1, 2006
5989-5485EN



Agilent Technologies