Keysight Technologies
MXG X–Series Signal Generator
N5183B Microwave Analog

Configuration Guide

This configuration guide will help you determine which performance options, software applications, accessories, and services to include with your new MXG or to add as upgrades to an existing MXG..

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Configure Your N5183B MXG Microwave Analog Signal Generator

This step-by-step process will help you configure your MXG microwave signal generator. Tailor the performance to meet your requirements. For detailed specifications, refer to the MXG signal generator data sheet (5991-3131EN).

Step 1. Select maximum frequency range (required option; frequency range not upgradeable)

Description	Option number	Additional information	Matching N5183A options
Frequency range from 9 kHz to 13 GHz	N5183B-513	Not compatible with 520, 532, 540 Includes standard adapter 3.5 mm female to 3.5 mm female	
Frequency range from 9 kHz to 20 GHz	N5183B-520	Not compatible with 513, 532, 540 Includes standard adapter 3.5 mm female to 3.5 mm female	N5183A-520
Frequency range from 9 kHz to 31.8 GHz	N5183B-532	Not compatible with 513, 520, 540 Includes standard adapter set, 2.4 mm female-female and 2.4 mm female to 2.9 mm female	N5183A-532
Frequency range from 9 kHz to 40 GHz	N5183B-540	Not compatible with 513, 520, 532 Includes standard adapter set, 2.4 mm female-female and 2.4 mm female to 2.9 mm female	N5183A-540

Step 2. Choose connector configuration

Description	Option number	Additional information	Matching N5183A options
Move all connectors to rear panel	N5183B-1EM	Not upgradable	N5183A-1EM
Type-N (f) RF output connector	N5183B-1ED	Not upgradable Not compatible with 532 or 540 Includes standard adapter type-N male to 3.5 mm female	N5183A-1ED

Step 3. Choose performance enhancement options

Description	Option number	Additional information	Matching N5183A options
AM, FM, phase modulation	N5183B-UNT		N5183A-UNT
Narrow pulse modulation	N5183B-UNW	Not compatible with UW2	N5183A-UNW
Narrow pulse modulation up to 31.8 GHz	N5183B-UW2	Not compatible with UNW. Requires 540	N5183A-HNS
Enhanced low phase noise	N5183B-UNY	Not upgradable	
Multifunction generator	N5183B-303		
Pulse train generator	N5183B-320	Requires UNW	N5183A-320
Instrument security and removable memory card	N5183B-006		N5183A-006
Fast frequency switching	N5183B-UNZ	Not compatible with UZ2	N5183A-UNZ
Fast frequency switching > 1.15 ms and ± 0.05% of final frequency	N5183B-UZ2	Not compatible with UNZ	N5183A-HNZ
High output power	N5183B-1EA		N5183A-1EA
Step attenuator	N5183B-1E1		N5183A-1E1
Flexible reference input (1 to 50 MHz)	N5183B-1ER		N5183A-1ER

Step 4. Choose accessory and documentation options

Description	Option number	Matching N5183A options
Rack slide kit	1CR012A	N5183A-1CR
Front handle kit	1CN006A	N5183A-1CN
Rack mount flange kit	1CM010A	N5183A-1CM
Rack mount flange kit with front handles	1CP004A	N5183A-1CP
Hard transit case	N5183B-AXT	N5183A-AXT
CD-ROM containing English documentation set	N5183B-CD1	N5183A-CD1
Service documentation, assembly and component	N5183B-0BW	N5183A-0BW

Step 5. Choose warranty and calibration options

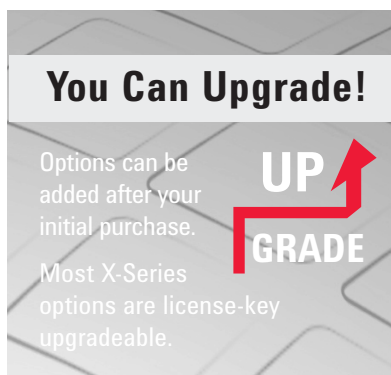| Description	Option number	Matching N5183A options
3-year warranty (return-to-Keysight), standard	Included	Included
Return-to-Keysight warranty, 5 years	R-51B-001-5C	R-51B-001-5C
Onsite warranty − 1 year	R-51C-001-1CU	
Onsite warranty − 3 year	R-51C-001-3CU	
Commercial calibration certificate with test data	N5183B-UK6	N5183A-UK6
Keysight Calibration + Uncertainties + Guardbanding (accredited cal)	N5183B-AMG	N5183A-1A7
ANSI Z540-1-1994 Calibration	N5183B-A6J	R-50C-021-3
Calibration Assurance Plan, Return-to-Keysight, 5 years	R-50C-011-5	R-50C-011-5

Step 6. Choose startup assistance service options

Description	Option number	Matching N5183A options
Remote scheduled assistance 1 to 999 hours	PS-S10	PS-S10
Daily productivity assistance	PS-S20	PS-S20
Signal generator and source basics; half-day, maximum of eight students on site	PS-T10-ASG	PS-T10-ASG
Custom services to be qualified by Keysight	PS-X10	PS-X10

Upgrade your existing MXG analog signal generator

Fast license-key upgrades for options that do not require additional hardware:

1. Place an order for the upgrade with Keysight Technologies, Inc. and request to receive the software entitlement certificate through email
2. Redeem the certificate through the Web by following the instructions on the certificate
3. Install the license file using Keysight License Manager
4. Begin using the new capability

Installation, calibration, and verification information is available at:
www.keysight.com/find/mxg_upgrades

You Can Upgrade!

Options can be added after your initial purchase.

Most X-Series options are license-key upgradeable.

UP GRADE

Description	Upgrade number	Requirements	Additional information
Service documentation, assembly and component	N5183BU-0BW	None	Printed copy of service guide
Instrument security and removable memory card	N5183BU-006	None	Hardware and license key upgrade
High output power	N5183BU-1EA	None	Customer installable – software, license key
Flexible reference input (1 to 50 MHz)	N5183BU-1ER	None	Customer installable – software, license key
Step attenuator	N5173BU-1E1	None	Customer installable - software, license key
Multifunction generator	N5183BU-303	None	Customer installable – software, license key
Pulse train generator	N5183BU-320	Requires UNW	Customer installable – software, license key
Hard transit case	N5183BU-AXT	None	
CD-ROM containing English documentation set	N5183BU-CD1	None	
Commercial calibration certificate with test data	N5183BU-UK6	None	
AM, FM, phase modulation	N5183BU-UNT	None	Customer installable – software, license key
Narrow pulse modulation	N5183BU-UNW	None	Customer installable – software, license key
Fast switching	N5183BU-UNZ	Not compatible with UZ2	Customer installable – software, license key
Narrow pulse modulation up to 31.8 GHz	N5183BU-UW2	Not compatible with UNW: requires 540	Customer installable - software, license key
Fast frequency switching > 1.15 ms and ± 0.05% of final frequency	N5183BU-UZ2	Not compatible with UNZ	Customer installable - software, licence key
Rack slide kit	1CR012A	None	Hardware
Front handle kit	1CN006A	None	Hardware
Rack mount flange kit	1CM010A	None	Hardware
Rack mount flange kit with front handles	1CP004A	None	Hardware

Related Literature

Keysight X-Series Signal Generators
EXG Microwave Analog Signal Generator Data Sheet, 5991-3132EN
MXG Microwave Analog Signal Generator Data Sheet, 5991-3131EN
Microwave Signal Generator Flyer, 5991-3594EN
X-Series Signal Generator Brochure, 5990-9957EN

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