



Agilent E8267C PSG Vector Signal Generator

Configuration Guide



E8267C PSG vector signal generator

This guide is intended to assist you with the ordering process of the PSG signal generators.

Standard product includes electronic manuals (CD-ROM), adapters and US power cord.

High output power (option IEA) and step attenuator (option IEI) are standard features on the E8267C vector signal generator.

Agilent Microwave PSG vector signal generator options

Step 1. Choose type of signal generator with frequency range (Mandatory)

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-520	PSG vector signal generator 250 kHz to 20 GHz	Used for vector signal simulation and flexible waveform sequencing		

Lowest phase noise

Step 2. Choose enhanced phase noise – option UNR

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-UNR	Enhanced close-in phase noise performance	User's application requires low close-in phase noise (i.e. -106 dBm typical) at 1 kHz offset from 10 GHz) approximately 24 dB improvement over standard		

Narrow pulse modulation

Step 3. Choose narrow pulse modulation - option 1E6

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-1E6	Provides narrow pulse modulation below 3.2 GHz. Narrow pulse modulation above 3.2 GHz is standard with the instrument.	Allows narrow pulses with fast rise & fall times of 10 ns from 10 MHz to the maximum frequency of the instrument		

Stimulus response capability with scalar network analyzer

Step 4. Choose ramp sweep – option 007

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-007	Provides ramp sweep, scalar interface, Z-axis blanking, and markers	User's application requires stimulus response and utilizes 8757D scalar network analyzer		

Internal baseband generator

Step 5. Choose internal baseband generator with memory

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-002	Internal baseband generator with 32 Msample memory	Used to produce arbitrary and real-time I/Q waveforms		
<input type="checkbox"/>	E8267C-005	6 GB internal hard drive	Used for non-volatile waveform storage		E8267C-002

Wide RF modulation bandwidth

Step 6. Choose wideband external I/Q- option 015

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-015	Wideband external I/Q inputs	Provides up to 1 GHz uncalibrated RF modulation bandwidth; standard provides 160 MHz RF bandwidth modulation		

Real-world signal simulation

Step 7. Choose Signal Studio software- PC and spectrum analyzer required

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-420	Signal Studio software for pulse building	Used to generate customized pulse patterns for simulation; Requires PSA or ESA spectrum analyzer		E8267C-002 (mandatory)* E8267C-1E6 E8267C-005 E8267C-UNR
<input type="checkbox"/>	E8267C-408	Signal Studio software for enhanced multitone signals	Generates multiple tone signals and applies predistortion techniques to remove the non-linear distortion of the signal generator; Requires PSA spectrum analyzer		E8267C-002 (mandatory)* E8267C-UNR

* provides 80 MHz of RF modulation bandwidth

Accessory options

Choose accessories or instrument connector configuration (Not mandatory)

Note: Standard 20 GHz models have a 3.5 mm (m) RF output connector on the front panel.

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-1ED	Type-N (f) connector			
<input type="checkbox"/>	E8267C-1EM	Moves all connectors to rear panel			
<input type="checkbox"/>	E8267C-1CM	Rack mount kit			
<input type="checkbox"/>	E8267C-1CN	Front handle kit			
<input type="checkbox"/>	E8267C-1CP	Rack mount kit with front handle kit			
<input type="checkbox"/>	83554A	Millimeter-wave source module R-band	Banded solution for extending frequency from 26.5 to 40 GHz		E8267C-1EA
<input type="checkbox"/>	83555A	Millimeter-wave source module Q-band	Banded solution for extending frequency from 33 to 50 GHz		E8267C-1EA
<input type="checkbox"/>	83556A	Millimeter-wave source module U-band	Banded solution for extending frequency from 40 to 60 GHz		E8267C-1EA
<input type="checkbox"/>	83557A	Millimeter-wave source module V-band	Banded solution for extending frequency from 50 to 75 GHz		E8267C-1EA
<input type="checkbox"/>	83558A	Millimeter-wave source module W-band	Banded solution for extending frequency from 75 to 110 GHz		E8267C-1EA
<input type="checkbox"/>	8120-8806	Master/slave interface cable			

Manuals

Choose manuals (Not mandatory)

Standard products ship with electronic (CD-ROM) manuals. The CD-ROM includes user's guide, installation guide, programming guide, calibration guide, service guide, SCPI command reference guide, error messages, key reference guide, and additional product literature.

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	E8267C-ABA	English manual set (users, programming and calibration) (hardcopy – no CD)			
<input type="checkbox"/>	E8267C-ABD	German localized supplemental user's guide (hardcopy – no CD)			
<input type="checkbox"/>	E8267C-ABF	French localized supplemental user's guide hardcopy – no CD)			
<input type="checkbox"/>	E8267C-ABJ	Japanese localized supplemental user's guide hardcopy – no CD)			
<input type="checkbox"/>	E8267C-ABA	Korean localized supplemental user's guide hardcopy – no CD)			
<input type="checkbox"/>	E8267C-CD1	CD-ROM documentation (includes PDF files of user's guide, programming guide, calibration guide, service guide, SCPI command reference guide, error messages, key reference guide, and additional product literature)			
<input type="checkbox"/>	E8267C-OBW	Adds the service guide (assembly level)			
<input type="checkbox"/>	E8267C-UK6	Commercial calibration certificate with test data			

Choose documentation (Not mandatory)

If you want to order PSG documentation separately

Selection ✓	Documentation Part Number	Title
<input type="checkbox"/>	E8251-90259	Service Guide
<input type="checkbox"/>	E8251-90251	User's Documentation on CD-ROM
<input type="checkbox"/>	E8251-90252	Installation Guide
<input type="checkbox"/>	E8251-90258	Calibration Guide
<input type="checkbox"/>	E8251-90253	User's Guide
<input type="checkbox"/>	E8251-90254	Key and Data Field Reference
<input type="checkbox"/>	E8251-90255	Programming Guide
<input type="checkbox"/>	E8251-90256	SCPI Command Reference
<input type="checkbox"/>	E8251-90257	Error Messages

Warranty, service and calibration options

Choose a warranty plan (Not mandatory)

For warranty and service of 5 years, please order 60 months of R-51B (quantity = 60). Standard warranty is 36 months.

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	R-51B	Return-to-Agilent warranty and service plan			

Choose a calibration plan¹ (Not mandatory)

For 3 years, order 36 months of the appropriate calibration plan shown below. For 5 years specify 60 months.

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<input type="checkbox"/>	R-50C-001	Standard calibration			
<input type="checkbox"/>	R-50C-002	Standards compliant calibration			

Upgradeable options

If an option is not mentioned that you would like to have upgraded on your PSG (E8267/E8257/E8247C only), please contact your local Agilent representative about our customized upgradeable options.

Factory upgradeable options for the E8267C signal generators

To add upgradeable options to a model, use the following ordering scheme:

	Example
Model # F	E8267CF
Model # - option number	E8267C-007
Model # - option number	E8267C-015

Choose factory upgradeable options (Not mandatory)

Selection ✓	Upgradeable options	Send instrument back to the factory for upgrade
<input type="checkbox"/>	E8267CF-1E6	Yes
<input type="checkbox"/>	E8267CF-1ED	Yes
<input type="checkbox"/>	E8267CF-1EM	Yes
<input type="checkbox"/>	E8267CF-UNR	Yes
<input type="checkbox"/>	E8267CF-007	Yes
<input type="checkbox"/>	E8267CF-015	Yes
<input type="checkbox"/>	E8267CF-005	Yes

Customer and service center installable upgrade kits for the E8267C signal generators

To add upgradeable options to a model, use the following ordering scheme:

	Example
Model # K	E8267CK
Model # - option number	E8267C-007
Model # - option number	E8267C-015

Choose customer and service center installable upgrade kits (Not mandatory)

Service center can install upgrade kits for an additional cost. Please consult your local Agilent representative for further information.

Selection ✓	Upgradeable options	Upgrade kit will be sent to the customer for installation
<input type="checkbox"/>	E8267CK-007	Yes
<input type="checkbox"/>	E8267CK-015	Yes
<input type="checkbox"/>	E8267CK-005	Yes

1. Options not available in all countries.

Related Agilent literature

PSG Signal Generator Brochure
Literature number 5988-7538EN

Agilent E8247/57C
PSG CW and Analog Signal Generator Data Sheet
Literature number 5988-7454EN

Agilent E8267C
PSG Vector Signal Generator Data Sheet
Literature number 5988-6632EN

Agilent E8247/57C
PSG CW and Analog Signal Generator Configuration Guide
Literature number 5988-7879EN

PSG Series Product Note: Millimeter Head
Literature number 5988-2567EN

PSG Two-tone and Multi-tone Application Note
Application Note 1410
Literature number 5988-7689EN

Agilent Signal Studio for Pulse Building
Technical Overview
Literature number 5988-8134EN

Digital Modulation in Communications Systems — An Introduction
Application Note 1298
Literature number 5965-7160E

For further information about renting, leasing and/or financing Agilent's latest technology, visit

<http://buyalternatives.tm.agilent.com/>

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www.agilent.com/find/mta

Free Agilent software:

- Latest software and drivers for the PSG
 - Upgrade your PSG with the latest software enhancements
- PSG/ESG Download assistant software
 - Download waveforms directly from the MATLAB® environment into the signal generator for playback
- Agilent IntuiLink connectivity software
 - Connectivity software solution that links test and measurement instrument data to PC applications

The above free software can be found by selecting the Software, Firmware, & Drivers embedded link located on each of the PSG E8267C, PSG E8257C or PSG E8247C (where applicable). For more information visit:

www.agilent.com/find/psg

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