



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 1EA) and step attenuator (option 1E1) are standard features on the E8267C vector signal generator.

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

Selection 🗸	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8267C-520	PSG vector signal generator 250 kHz to 20 GHz	Vector signal simulation to 20 GHz		

Lowest phase noise

Agilent Microwave

PSG vector signal generator options

Step 2. Choose enhanced phase noise - option UNR

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8267C-UNR	Enhanced close-in phase noise performance	User's application requires low close-in phase noise (i.e106 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)
	E8267C-1E6	Provides narrow pulse modulation below 3.2 GHz. (Narrow pulse modu- lation above 3.2 GHz is standard with 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)
	E8267C-007	Provides a fully synthesized ramp (analog) sweep in frequency and amplitude	Network analysis requiring a swept source. Provides fully automated operation with the 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)
	E8267C-602	Internal baseband generator with 64 MSa memory, 80 MHz of RF modulation bandwidth	Used to produce arbitrary and real-time I/Q waveforms		
	E8267C-005	6 GB internal hard drive	Used for non-volatile waveform storage		E8267C-602

Wide RF modulation bandwidth

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

Selection	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8267C-015	Wideband external I/Q inputs	Provides up to 1 GHz uncalibrated RF modulation bandwidth; standard external I/Q inputs provide 160 MHz RF modulation bandwidth		

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)
Č	E8267C-408	Signal Studio 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-602 (mandatory) E8267C-UNR
	E8267C-420	Signal Studio for pulse building	Used to generate customized pulse patterns for simulation; Requires PSA or ESA spectrum analyzer		E8267C-602 (mandatory) E8267C-1E6 E8267C-005 E8267C-UNR
	E8267C-421	Signal Studio for noise power ratio (NPR)	Generates a simulated broadband noise signal to facilitate NPR measurements. Applies predistortion techniques to improve RF flatness and increase notch depth. Requires a PSA spectum analyzer.	N	E8267C-602 (mandatory) E8267C-UNR

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)
	E8267C-003	Enables digital		E8267C-002	E8267C-602
		output connectivity			(mandatory)
		with N5102A			
	E8267C-1ED	Type-N (f) connector			
	E8267C-1EM	Moves all			
		connectors to			
		rear panel			
	E8267C-1CM	Rack mount kit			
	E8267C-1CN	Front handle kit			
	E8267C-1CP	Rack mount kit			
		with front handle kit			

Related products

These related products enhance the capabilities of the PSG vector signal generator

Selection 🗸	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	83554A	Millimeter-wave source module R-band	Banded solution for extending frequency from 26.5 to 40 GHz		
	83555A	Millimeter-wave source module Q-band	Banded solution for extending frequency from 33 to 50 GHz		
	83556A	Millimeter-wave source module U-band	Banded solution for extending frequency from 40 to 60 GHz		
	83557A	Millimeter-wave source module V-band	Banded solution for extending frequency from 50 to 75 GHz		
	83558A	Millimeter-wave source module W-band	Banded solution for extending frequency from 75 to 110 GHz		
	8120-8806	Master/slave interface cable			
	N5101A	Baseband Studio PCI card	Enables Baseband Studio applications (fading and waveform streaming)	E8267C-002	E8267C-602 (mandatory)
	N5110A	Baseband Studio for waveform streaming			N5110A-120 (mandatory) N5110A-125 (mandatory)
	N5110A-120	Hard drive waveform streaming up to 20 MSa/s			
	N5110A-121	Extended hard drive streaming BW from 20 up to 40 MSa/s			
	N5110A-125	Signal generator hard drive streaming connectivity			
	N5102A	Baseband Studio digital signal interface module	Provides digital IQ and IF outputs		E8267C-003 (mandatory) E8267C-602 (mandatory)

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)
	E8267C-ABA	English manual set (users, programming and calibration) (hardcopy – no CD)			
	E8267C-ABD	German localized user's guide (hardcopy – no CD)			
	E8267C-ABF	French localized user's guide (hardcopy – no CD)			
	E8267C-ABJ	Japanese localized user's guide (hardcopy – no CD)			
	E8267C-AB2	Chinese (simplified) user's guide (hardcopy – no CD)			
	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)			
	E8267C-0BW	Adds the service guid (assembly level)			
	E8267C-UK6	Commercial calibration certificate with test d			

Choose documentation (Not mandatory) If you want to order PSG documentation separately

Selection ✓	Documentation Part Number	Title
	E8251-90259	Service Guide
	E8251-90251	User's Documentation on CD-ROM
	E8251-90252	Installation Guide
	E8251-90258	Calibration Guide
	E8251-90253	User's Guide
	E8251-90254	Key and Data Field Reference
	E8251-90255	Programming Guide
	E8251-90256	SCPI Command Reference
	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)
	Standard	3-year return-to-A warranty and ser	0		
	5 years	Extended return-to-Agilent warranty and ser			

Choose a calibration plan¹ (Not mandatory)

There is no calibration plan standard with the E8267C. For a calibration plan, specify 3 or 5 years for one of the appropriate plans below when ordering. For more information on the plans, anilant com/find/convices unfro

please visit www.agilent.com/find/services_upfront_options.					
Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	N/A	Agilent Calibration Upfront Plan			

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		Upfront Plan
	N/A	Agilent Calibration Plus Upfront Plan
	N/A	Z540 Calibration
		Upfront Plan

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.

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</model>	E8267CK
<model #=""> K - <option number=""></option></model>	E8267CK-007

Choose customer and service center installable upgrade kits^{2,3}

Service center can install upgrade kits for an additional cost.

Please consult your local Agilent representative for futher information.

Selection ✓	Upgradeable options	Upgrade kit will be sent to the customer for installation	
	E8267CK-007	Yes	
	E8267CK-015	Yes	
	E8267CK-408	Yes	
	E8267CK-420	Yes	
	E8267CK-421	Yes	
	E8267CK-602	Yes	
	E8267CK-003	Yes	

- 2. Options orderable as customer and service center installable.
- Upgrade kits may also be ordered as factory upgradeable options. Options 1E6, 1ED, 1EM, UNR, and 005 must be returned to the Agilent
- 3. U.S. factory for an upgrade. These can not be upgraded by the customer.

^{1.} Options not available in all countries.

Related Agilent literature	<i>PSG Signal Generator,</i> Brochure Literature number 5988-7538EN
	<i>E8247C/57C PSG CW and Analog Signal Generator,</i> Data Sheet Literature number 5988-7454EN
	<i>E8267C PSG Vector Signal Generator,</i> Data Sheet Literature number 5988-6632EN
	<i>E8247C/57C PSG CW and Analog Signal Generator,</i> Configuration Guide Literature number 5988-7879EN
	<i>PSG Series: Millimeter Head,</i> Product Note Literature number 5988-2567EN
	<i>PSG Two-Tone and Multitone Personalities,</i> Application Note 1410 Literature number 5988-7689EN
	Signal Studio for Pulse Building, Technical Overview Literature number 5988-8134EN
	<i>Signal Studio for Noise Power Ratio,</i> Technical Overview Literature number 5988-9161EN
	<i>Signal Studio for Enhanced Multitone,</i> Technical Overview Literature number 5988-5639EN
	<i>N5102A Baseband Studio Digital Signal Interface Module,</i> Technical Overview Literature number 5988-9495EN
	<i>N5110A Baseband Studio for Waveform Streaming,</i> Technical Overview Literature number 5988-9493EN
	<i>Digital Modulation in Communications Systems — An Introduction</i> Application Note 1298 Literature number 5965-7160E
	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

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

www.agilent.com/find/buyalternatives

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Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and onsite education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

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