M9484C VXG

Vector signal generator

Introduction

This configuration guide contains information to help you configure your M9484C VXG vector signal generator to meet your requirements. Ordering optional capabilities at the time of purchase provides the lowest overall cost of ownership.



KEYSIGHT

About the M9484C VXG Vector Signal Generator

You're designing your next RF breakthrough and ensuring that your design delivers maximum throughput, robust links, and data handling capabilities. This introduces a new set of design and test challenges, including more bandwidths, frequency bands, and system complexity.

Keysight has created the ultimate VXG signal generator to take your designs to the widest bandwidths, highest frequencies, and multichannel applications. With this fully integrated, calibrated, and synchronized solution, you don't need to worry about the errors caused by additional connections and instruments. Through integration with PathWave Signal Generation software, create performance-optimized reference signals and reduce the time you spend on signal simulation.

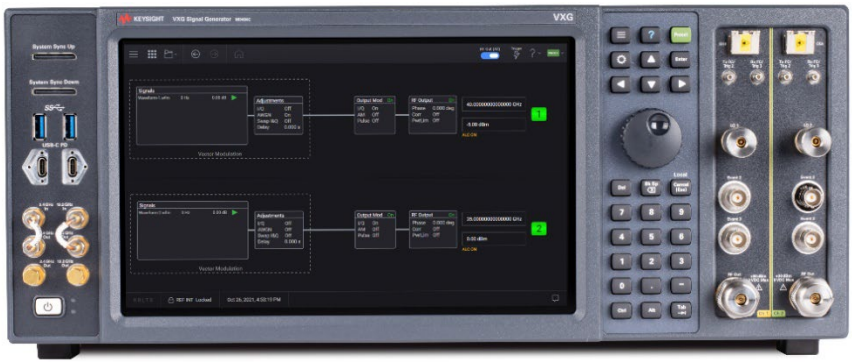

Figure 1. M9484C VXG signal generator with two 54 GHz channels.

Configure Hardware

To configure the M9484C VXG, start by selecting the desired number of channels. Then, add system features, which are ordered once per instrument. Finally, add channel features, which are ordered once per channel. Detailed information is provided below.

Select number of channels

Configuration	Required options	Descriptions	Additional information
One channel	M9484C-001	Add channel one	Required for all configurations
Two channels	M9484C-001 M9484C-002	Add channel one Add channel two	
Four channels	M9484C-001 M9484C-002 M9484C-003 M9484C-004	Add channel one Add channel two Add channel three Add channel four	Not compatible with 532, 544, 554

Select system features (ordered once per instrument)

Option	Description	Additional information
M9484C-1ER	Flexible reference input	
M9484C-CB5	Channel bonding, 5 GHz	Requires R25 on all channels, PCH, and N7653APPC Recommended with Y1166A or Y1167A accessory kits
M9484C-PCH	Phase coherence for N channels	Requires 002
M9484C-AL2	Auxiliary fixed LO	Requires 532, 544 or 554 Required for use with V3080A Vector Signal Generator Frequency Extender

Select channel features (ordered once per channel)

Option	Description	Additional information
Frequency options (must select one; option will be duplicated on all channels)		
M9484C-506	CW frequency range, 9 kHz to 6 GHz	Type-N (f) RF output connector Not compatible with 1EH
M9484C-508	CW frequency range, 9 kHz to 8.5 GHz	Type-N (f) RF output connector Not compatible with 1EH
M9484C-514	CW frequency range, 9 kHz to 14 GHz	3.5 mm (m) RF output connector
M9484C-520	CW frequency range, 9 kHz to 20 GHz	3.5 mm (m) RF output connector
M9484C-532	CW frequency range, 9 kHz to 31.8 GHz	1.85 mm (m) RF output connector Not compatible with 003, 004
M9484C-544	CW frequency range, 9 kHz to 44 GHz	1.85 mm (m) RF output connector Not compatible with 003, 004
M9484C-554	CW frequency range, 9 kHz to 54 GHz	1.85 mm (m) RF output connector Not compatible with 003, 004
Bandwidth options (must select one; option may be different on each channel)		
M9484C-B1X	RF bandwidth, 160 MHz with 64 MSa memory	
M9484C-B2X	RF bandwidth, 250 MHz with 64 MSa memory	
M9484C-B5X	RF bandwidth, 500 MHz with 256 MSa memory	
M9484C-R10	RF bandwidth, 1 GHz with 256 MSa memory	
M9484C-R1E	RF bandwidth, 1 GHz with 256 MSa memory, limited	Maximum bandwidth is frequency dependent. See data sheet for details.
M9484C-R25	RF bandwidth, 2.5 GHz with 256 MSa memory	
M9484C-R2E	RF bandwidth, 2.5 GHz with 256 MSa memory, limited	Maximum bandwidth is frequency dependent. See data sheet for details.
Reference options (must select one; option will be duplicated on all channels)		
M9484C-500	High performance reference	Requires ST5
M9484C-600	Enhanced high performance reference	Requires ST6
Phase noise options (must select one; option will be duplicated on all channels)		
M9484C-ST5	Low phase noise	Requires 500
M9484C-ST6	Enhanced low phase noise	Requires 600

Option	Description	Additional information
High output power options (optionally select one; option will be duplicated on all channels)		
M9484C-1EA	High output power from 9 kHz to 6 or 8.5 GHz	Not compatible with 514, 520, 532, 544, 554
M9484C-1EB	High output power from 9 kHz to 14 or 20 GHz	Not compatible with 506, 508, 532, 544, 554
M9484C-1EC	High output power from 9 kHz to 31.8, 44 or 54 GHz	Not compatible with 506, 508, 514, 520
M9484C-1EE	High output power from 9 kHz to 31.8, 44 or 54 GHz, limited above 43.5 GHz	Not compatible with 506, 508, 514, 520
Memory options (optionally select one; option may be different on each channel)		
M9484C-M05	Baseband generator memory upgrade to 512 MSa	
M9484C-M10	Baseband generator memory upgrade to 1024 MSa	
M9484C-M20	Baseband generator memory upgrade to 2048 MSa	
M9484C-M40	Baseband generator memory upgrade to 4096 MSa	
Analog modulation options (optionally select any; options will be duplicated on all channels unless otherwise stated)		
M9484C-AN1	Analog I/O for LF out, AM, FM, PM inputs, single ended IQ outputs	Only available on channel one – will not be duplicated on all channels FM and PM inputs require ST6 AM, FM, and PM inputs are reserved for future use
M9484C-PMR	Pulse modulation	Not compatible with PME
M9484C-PME	Limited pulse modulation	Not compatible with PMR
M9484C-320	Pulse train generator (SCPI only)	Requires PMR or PME
Vector system options (optionally select any; option may be different on each channel unless otherwise stated)		
M9484C-403	AWGN and CW interferer	
M9484C-8SG	8 virtual signal generators (multiple IQ paths to RF)	Option will be duplicated on all channels
M9484C-DIQ	Differential IQ outputs	Requires AN1 Only available on channel one – will not be duplicated on all channels
General purpose options (optionally select any; option may be different on each channel)		
M9484C-1EH	Improved harmonics below 3.8 GHz	Not compatible with 506, 508

Configure Software

Included software

The M9484C VXG base configuration includes the following software tools.

Description
Keysight IO Libraries Suite including Connection Expert
Sample waveforms and programming examples

Embedded PathWave software tools

Embedded PathWave software tools can be used to create and playback waveforms through the VXG touch-optimized graphical user interface. Optionally select any models. One software license per instrument is required. For additional information, see the PathWave Signal Generation Brochure.

Model	Description
N7605AP0C	PathWave Signal Generation for 3GPP MIMO fading (5GNR FR1 & FR2, LTE)
N7608APPC	PathWave Signal Generation for custom modulation
N7621APPC	PathWave Signal Generation for basic multitone
N7631APPC	PathWave Signal Generation for 5G NR
N7642APPC	PathWave Signal Generation for IQ based AM, FM, phase modulation
N7653APPC	PathWave automatic channel response correction and S-parameter de-embedding (includes instrument nonlinear correction)

Additional PathWave software tools and MATLAB

These PathWave software tools can be used to create and playback waveforms through file-export based waveform playback. Optionally select any models. One software license per instrument is required. For additional information, see the PathWave Signal Generation Brochure.

Model	Description
Cellular communications	
N7600EMBC	PathWave Signal Generation for W-CDMA/HSPA+
N7601EMBC	PathWave Signal Generation for cdma2000/1xEV-DO
N7602EMBC	PathWave Signal Generation for GSM/EDGE/Evo
N7612EMBC	PathWave Signal Generation for TD-SCDMA/HSPA
N7624EMBC	PathWave Signal Generation for LTE/LTE-Advanced/LTE-A Pro FDD
N7625EMBC	PathWave Signal Generation for LTE/LTE-Advanced TDD
N7626EMBC	PathWave Signal Generation for V2X
Wireless connectivity	
N7606EMBC	PathWave Signal Generation for Bluetooth
N7610EMBC	PathWave Signal Generation for IoT
N7617EMBC	PathWave Signal Generation for WLAN 802.11
Audio/video broadcasting, public safety	
N7611EMBC	PathWave Signal Generation for broadcast radio
N7623EMBC	PathWave Signal Generation for digital video
N7640EMBC	PathWave Signal Generation for LMR
Detection, positioning, tracking and navigation	
N7609EMBC	PathWave Signal Generation for Global Navigation Satellite System (GNSS)[1]
General RF and microwave	
N7614EMBC	PathWave Signal Generation for power amplifier test
N6171A	MATLAB software

1 Real-time signal generation is not supported.

Select accessories

Model	Description	Additional information
Y1257A	Rack mount kit for M9484C	
Y1276A	Cooling spacer kit	Required when additional instrumentation will be stacked on the M9484C (on a tabletop or in a rack).
Y1277A	Additional removable solid-state drive	If PathWave software will be added to a purchase which also includes an additional removable SSD, it is recommended to select floating, transportable, or USB portable license types. Node-locked licenses enable a single SSD.
Y1166A	Channel bonding kit for VXG, 6, 8.5, 14, or 20 GHz frequency options	Requires M9484C-CB5
Y1167A	Channel bonding kit for VXG, 31.8, 44, or 54 GHz frequency options	Requires M9484C-CB5
N5520B	Adapter, 1.85 mm (f) to 1.85 mm (f), DC to 67 GHz	One included with M9484C-554
11900B	Adapter, 2.4 mm (f) to 2.4 mm (f), DC to 50 GHz	One included with M9484C-544 and M9484C-532
11904B	Adapter, 2.4 mm (f) to 2.9 mm (f), DC to 40 GHz	One included with M9484C-544 and M9484C-532
83059B	Coaxial Adapter, 3.5 mm (f) to 3.5 mm (f), DC to 26.5 GHz	One included with M9484C-520 and M9484C-514

Post Purchase Upgrades

Your product can be easily upgraded after the initial purchase. Some M9484C VXG vector signal generator options are controlled by a licensing key and can be quickly installed by the user. To upgrade these options:

1. Contact your Keysight representative to place an order for an option upgrade.
2. You will receive your entitlement certificate via email.
3. Redeem the certificate online by following the instructions provided to receive a license key file.
4. Save the license file to C:\ProgramData\Keysight\Licensing\Licenses\Other
5. Begin using the new capability.

Some M9484C VXG vector signal generator options require additional hardware. Contact your Keysight representative for assistance with hardware upgrades.

Upgrades are applied per channel. For example, to upgrade both channels of a two-channel M9484C VXG, quantity 2 of the desired upgrade should be ordered.

Ordering number	Description	Requirements	Additional information
System feature upgrades			
M9484CU-1ER	Add flexible reference input		Customer installable, license key
M9484CU-AL2	Add auxiliary fixed LO	M9484C-532, 544, or 554	Customer installable, license key
M9484CU-CB5	Add channel bonding, 5 GHz	M9484C-002, PCH, R25 on all channels N7653APPC	Customer installable, license key
M9484CU-DIQ	Add differential IQ outputs	M9484C-AN1	Customer installable, license key
M9484CU-PCH	Add phase coherency for N channels	M9484C-002	Customer installable, license key
Frequency upgrades (must match on all channels)			
M9484CU-705	Upgrade channel 1 frequency range, 9 kHz to 8.5 GHz (508)	M9484C-506	Customer installable, license key
M9484CU-706	Upgrade channel 2 frequency range, 9 kHz to 8.5 GHz (508)	M9484C-506	Customer installable, license key
M9484CU-707	Upgrade channel 3 frequency range, 9 kHz to 8.5 GHz (508)	M9484C-506	Customer installable, license key
M9484CU-708	Upgrade channel 4 frequency range, 9 kHz to 8.5 GHz(508)	M9484C-506	Customer installable, license key
M9484CU-713	Upgrade channel 1 frequency range, 9 kHz to 20 GHz (520)	M9484C-514	Customer installable, license key
M9484CU-714	Upgrade channel 2 frequency range, 9 kHz to 20 GHz (520)	M9484C-514	Customer installable, license key
M9484CU-715	Upgrade channel 3 frequency range, 9 kHz to 20 GHz (520)	M9484C-514	Customer installable, license key
M9484CU-716	Upgrade channel 4 frequency range, 9 kHz to 20 GHz (520)	M9484C-514	Customer installable, license key
M9484CU-721	Upgrade channel 1 frequency range, 9 kHz to 44 GHz (544)	M9484C-532	Customer installable, license key
M9484CU-722	Upgrade channel 2 frequency range, 9 kHz to 44 GHz (544)	M9484C-532	Customer installable, license key
M9484CU-725	Upgrade channel 1 frequency range, 9 kHz to 54 GHz (554)	M9484C-544 or M9484CU-721	Customer installable, license key
M9484CU-726	Upgrade channel 2 frequency range, 9 kHz to 54 GHz (544)	M9484C-544 or M9484CU-722	Customer installable, license key
Reference upgrades (must match on all channels)			
M9484CU-785	Upgrade channel 1 with enhanced high performance reference (600)	M9484C-ST6 or M9484CU-777	Customer installable, license key
M9484CU-786	Upgrade channel 2 with enhanced high performance reference (600)	M9484C-ST6 or M9484CU-778	Customer installable, license key
M9484CU-787	Upgrade channel 3 with enhanced high performance reference (600)	M9484C-ST6 or M9484CU-779	Customer installable, license key
M9484CU-788	Upgrade channel 4 with enhanced high performance reference (600)	M9484C-ST6 or M9484CU-780	Customer installable, license key

Ordering number	Description	Requirements	Additional information
Phase noise upgrades (must match on all channels)			
M9484CU-777	Upgrade channel 1 with enhanced low phase noise (ST6)	M9484C-600 or M9484CU-785	Customer installable, license key
M9484CU-778	Upgrade channel 2 with enhanced low phase noise (ST6)	M9484C-600 or M9484CU-786	Customer installable, license key
M9484CU-779	Upgrade channel 3 with enhanced low phase noise (ST6)	M9484C-600 or M9484CU-787	Customer installable, license key
M9484CU-780	Upgrade channel 4 with enhanced low phase noise (ST6)	M9484C-600 or M9484CU-788	Customer installable, license key
Output power upgrades (must match on all channels)			
M9484CU-757	Add high output power from 9 kHz to 6 or 8.5 GHz to channel 1 (1EA)	M9484C-506 or 508	Customer installable, license key
M9484CU-758	Add high output power from 9 kHz to 6 or 8.5 GHz to channel 2 (1EA)	M9484C-506 or 508	Customer installable, license key
M9484CU-759	Add high output power from 9 kHz to 6 or 8.5 GHz to channel 3 (1EA)	M9484C-506 or 508	Customer installable, license key
M9484CU-760	Add high output power from 9 kHz to 6 or 8.5 GHz to channel 4 (1EA)	M9484C-506 or 508	Customer installable, license key
M9484CU-761	Add high output power from 9 kHz to 14 or 20 GHz to channel 1 (1EB)	M9484C-514 or 520	Customer installable, license key
M9484CU-762	Add high output power from 9 kHz to 14 or 20 GHz to channel 2 (1EB)	M9484C-514 or 520	Customer installable, license key
M9484CU-763	Add high output power from 9 kHz to 14 or 20 GHz to channel 3 (1EB)	M9484C-514 or 520	Customer installable, license key
M9484CU-764	Add high output power from 9 kHz to 14 or 20 GHz to channel 4 (1EB)	M9484C-514 or 520	Customer installable, license key
M9484CU-765	Add high output power from 9 kHz to 31.8, 44, or 54 GHz to channel 1 (1EC)	M9484C-532, 544, or 554	Customer installable, license key
M9484CU-766	Add high output power from 9 kHz to 31.8, 44, or 54 GHz to channel 2 (1EC)	M9484C-532, 544, or 554	Customer installable, license key
M9484CU-769	Add high output power from 9 kHz to 43.5 GHz, limited above 43.5 GHz to channel 1 (1EE)	M9484C-532, 544, or 554	Customer installable, license key
M9484CU-770	Add high output power from 9 kHz to 43.5 GHz, limited above 43.5 GHz to channel 2 (1EE)	M9484C-532, 544, or 554	Customer installable, license key
Analog modulation upgrades (must match on all channels)			
M9484CU-855	Add limited pulse modulation to channel 1 (PME)		Customer installable, license key
M9484CU-856	Add limited pulse modulation to channel 2 (PME)		Customer installable, license key
M9484CU-857	Add limited pulse modulation to channel 3 (PME)		Customer installable, license key
M9484CU-858	Add limited pulse modulation to channel 4 (PME)		Customer installable, license key
M9484CU-859	Add pulse modulation to channel 1 (PMR)		Customer installable, license key
M9484CU-860	Add pulse modulation to channel 2 (PMR)		Customer installable, license key
M9484CU-861	Add pulse modulation to channel 3 (PMR)		Customer installable, license key
M9484CU-862	Add pulse modulation to channel 4 (PMR)		Customer installable, license key
General purpose upgrades			
M9484CU-851	Add improved harmonics to channel 1 (1EH)		Customer installable, license key
M9484CU-852	Add improved harmonics to channel 2 (1EH)		Customer installable, license key
M9484CU-853	Add improved harmonics to channel 3 (1EH)		Customer installable, license key
M9484CU-854	Add improved harmonics to channel 4 (1EH)		Customer installable, license key

Ordering number	Description	Requirements	Additional information
Bandwidth upgrades			
M9484CU-733	Upgrade channel 1 RF bandwidth, from 160 MHz to 250 MHz (B2X)	M9484C-B1X	Customer installable, license key
M9484CU-734	Upgrade channel 2 RF bandwidth, from 160 MHz to 250 MHz (B2X)	M9484C-B1X	Customer installable, license key
M9484CU-735	Upgrade channel 3 RF bandwidth, from 160 MHz to 250 MHz (B2X)	M9484C-B1X	Customer installable, license key
M9484CU-736	Upgrade channel 4 RF bandwidth, from 160 MHz to 250 MHz (B2X)	M9484C-B1X	Customer installable, license key
M9484CU-737	Upgrade channel 1 RF bandwidth, from 250 MHz to 500 MHz (B5X)	M9484C-B2X or M9484CU-733	Customer installable, license key
M9484CU-738	Upgrade channel 2 RF bandwidth, from 250 MHz to 500 MHz (B5X)	M9484C-B2X or M9484CU-734	Customer installable, license key
M9484CU-739	Upgrade channel 3 RF bandwidth, from 250 MHz to 500 MHz (B5X)	M9484C-B2X or M9484CU-735	Customer installable, license key
M9484CU-740	Upgrade channel 4 RF bandwidth, from 250 MHz to 500 MHz (B5X)	M9484C-B2X or M9484CU-736	Customer installable, license key
M9484CU-741	Upgrade channel 1 RF bandwidth, from 500 MHz to 1 GHz (R10)	M9484C-B5X or M9484CU-737	Customer installable, license key
M9484CU-742	Upgrade channel 2 RF bandwidth, from 500 MHz to 1 GHz (R10)	M9484C-B5X or M9484CU-738	Customer installable, license key
M9484CU-743	Upgrade channel 3 RF bandwidth, from 500 MHz to 1 GHz (R10)	M9484C-B5X or M9484CU-739	Customer installable, license key
M9484CU-744	Upgrade channel 4 RF bandwidth, from 500 MHz to 1 GHz (R10)	M9484C-B5X or M9484CU-740	Customer installable, license key
M9484CU-745	Upgrade channel 1 RF bandwidth, from 500 MHz to 1 GHz, limited (R1E)	M9484C-B5X or M9484CU-737	Customer installable, license key
M9484CU-746	Upgrade channel 2 RF bandwidth, from 500 MHz to 1 GHz, limited (R1E)	M9484C-B5X or M9484CU-738	Customer installable, license key
M9484CU-747	Upgrade channel 3 RF bandwidth, from 500 MHz to 1 GHz, limited (R1E)	M9484C-B5X or M9484CU-739	Customer installable, license key
M9484CU-748	Upgrade channel 4 RF bandwidth, from 500 MHz to 1 GHz, limited (R1E)	M9484C-B5X or M9484CU-740	Customer installable, license key
M9484CU-749	Upgrade channel 1 RF bandwidth, from 1 GHz to 2.5 GHz (R25)	M9484C-R10 or M9484CU-741	Customer installable, license key
M9484CU-750	Upgrade channel 2 RF bandwidth, from 1 GHz to 2.5 GHz (R25)	M9484C-R10 or M9484CU-742	Customer installable, license key
M9484CU-751	Upgrade channel 3 RF bandwidth, from 1 GHz to 2.5 GHz (R25)	M9484C-R10 or M9484CU-743	Customer installable, license key
M9484CU-752	Upgrade channel 4 RF bandwidth, from 1 GHz to 2.5 GHz (R25)	M9484C-R10 or M9484CU-744	Customer installable, license key
M9484CU-753	Upgrade channel 1 RF bandwidth, from 1 GHz to 2.5 GHz, limited (R2E)	M9484C-R1E or M9484CU-745	Customer installable, license key
M9484CU-754	Upgrade channel 2 RF bandwidth, from 1 GHz to 2.5 GHz, limited (R2E)	M9484C-R1E or M9484CU-746	Customer installable, license key
M9484CU-755	Upgrade channel 3 RF bandwidth, from 1 GHz to 2.5 GHz, limited (R2E)	M9484C-R1E or M9484CU-747	Customer installable, license key
M9484CU-756	Upgrade channel 4 RF bandwidth, from 1 GHz to 2.5 GHz, limited (R2E)	M9484C-R1E or M9484CU-748	Customer installable, license key
Baseband generator memory upgrades			
M9484CU-835	Upgrade channel 1 baseband generator memory upgrade to 512 MSa (M05)		Customer installable, license key
M9484CU-836	Upgrade channel 2 baseband generator memory upgrade to 512 MSa (M05)		Customer installable, license key
M9484CU-837	Upgrade channel 3 baseband generator memory upgrade to 512 MSa (M05)		Customer installable, license key
M9484CU-838	Upgrade channel 4 baseband generator memory upgrade to 512 MSa (M05)		Customer installable, license key
M9484CU-839	Upgrade channel 1 baseband generator memory upgrade to 1024 MSa (M10)	M9484C-M05 or M9484CU-835	Customer installable, license key
M9484CU-840	Upgrade channel 2 baseband generator memory upgrade to 1024 MSa (M10)	M9484C-M05 or M9484CU-836	Customer installable, license key
M9484CU-841	Upgrade channel 3 baseband generator memory upgrade to 1024 MSa (M10)	M9484C-M05 or M9484CU-837	Customer installable, license key
M9484CU-842	Upgrade channel 4 baseband generator memory upgrade to 1024 MSa (M10)	M9484C-M05 or M9484CU-838	Customer installable, license key
M9484CU-843	Upgrade channel 1 baseband generator memory upgrade to 2048 MSa (M20)	M9484C-M10 or M9484CU-839	Customer installable, license key
M9484CU-844	Upgrade channel 2 baseband generator memory upgrade to 2048 MSa (M20)	M9484C-M10 or M9484CU-840	Customer installable, license key
M9484CU-845	Upgrade channel 3 baseband generator memory upgrade to 2048 MSa (M20)	M9484C-M10 or M9484CU-841	Customer installable, license key
M9484CU-846	Upgrade channel 4 baseband generator memory upgrade to 2048 MSa (M20)	M9484C-M10 or M9484CU-842	Customer installable, license key

Ordering number	Description	Requirements	Additional information
Baseband generator memory upgrades (continued)			
M9484CU-847	Upgrade channel 1 baseband generator memory upgrade to 4096 MSa (M40)	M9484C-M20 or M9484CU-843	Customer installable, license key
M9484CU-848	Upgrade channel 2 baseband generator memory upgrade to 4096 MSa (M40)	M9484C-M20 or M9484CU-844	Customer installable, license key
M9484CU-849	Upgrade channel 3 baseband generator memory upgrade to 4096 MSa (M40)	M9484C-M20 or M9484CU-845	Customer installable, license key
M9484CU-850	Upgrade channel 4 baseband generator memory upgrade to 4096 MSa (M40)	M9484C-M20 or M9484CU-846	Customer installable, license key
Vector system feature upgrades			
M9484CU-789	Add 8 virtual signal generators (multiple IQ paths to RF) to channel 1 (8SG)	Must match on all channels	Customer installable, license key
M9484CU-790	Add 8 virtual signal generators (multiple IQ paths to RF) to channel 2 (8SG)	Must match on all channels	Customer installable, license key
M9484CU-791	Add 8 virtual signal generators (multiple IQ paths to RF) to channel 3 (8SG)	Must match on all channels	Customer installable, license key
M9484CU-792	Add 8 virtual signal generators (multiple IQ paths to RF) to channel 4 (8SG)	Must match on all channels	Customer installable, license key
M9484CU-831	Add calibrated AWGN to channel 1 (403)		Customer installable, license key
M9484CU-832	Add calibrated AWGN to channel 2 (403)		Customer installable, license key
M9484CU-833	Add calibrated AWGN to channel 3 (403)		Customer installable, license key
M9484CU-834	Add calibrated AWGN to channel 4 (403)		Customer installable, license key
Analog I/O upgrades			
M9484CU-AN2	Add analog I/O to 1 channel, 6 or 8.5 GHz M9484C	M9484C-506 or 508 Not compatible with M9484C-002 or 004	Hardware, return to factory
M9484CU-AN5	Add analog I/O to 2 channel, 14 or 20 GHz M9484C (first channel only)	M9484C-514 or 520, 002 Not compatible with M9484C-004	Hardware, return to factory
M9484CU-AN6	Add analog I/O to 1 channel, 31.8, 44, or 54 GHz M9484C	M9484C-532, 544, or 554 Not compatible with M9484C-002 or 004	Hardware, return to factory

Ordering number	Description	Requirements	Additional information
Signal descriptor word streaming upgrades[1]			
M9484CU-827	Add signal descriptor word streaming to channel 1 (SDW)	M9484C-R25 Not compatible with M9484C-AN1	Customer installable, license key
M9484CU-828	Add signal descriptor word streaming to channel 2 (SDW)	M9484C-R25 Not compatible with M9484C-AN1	Customer installable, license key
M9484CU-829	Add signal descriptor word streaming to channel 3 (SDW)	M9484C-R25 Not compatible with M9484C-AN1	Customer installable, license key
M9484CU-830	Add signal descriptor word streaming to channel 4 (SDW)	M9484C-R25 Not compatible with M9484C-AN1	Customer installable, license key
M9484CU-811	Add 2 virtual channels for SDW streaming to channel 1 (2CH)	M9484CU-827; Not compatible with M9484CU-815 or M9484CU-819	Customer installable, license key
M9484CU-812	Add 2 virtual channels for SDW streaming to channel 2 (2CH)	M9484CU-828; Not compatible with M9484CU-816 or M9484CU-820	Customer installable, license key
M9484CU-813	Add 2 virtual channels for SDW streaming to channel 3 (2CH)	M9484CU-829; Not compatible with M9484CU-817 or M9484CU-821	Customer installable, license key
M9484CU-814	Add 2 virtual channels for SDW streaming to channel 4 (2CH)	M9484CU-830; Not compatible with M9484CU-818 or M9484CU-822	Customer installable, license key
M9484CU-815	Add 4 virtual channels for SDW streaming to channel 1 (4CH)	M9484CU-827; Not compatible with M9484CU-811 or M9484CU-819	Customer installable, license key
M9484CU-816	Add 4 virtual channels for SDW streaming to channel 2 (4CH)	M9484CU-828; Not compatible with M9484CU-812 or M9484CU-820	Customer installable, license key
M9484CU-817	Add 4 virtual channels for SDW streaming to channel 3 (4CH)	M9484CU-829; Not compatible with M9484CU-813 or M9484CU-821	Customer installable, license key
M9484CU-818	Add 4 virtual channels for SDW streaming to channel 4 (4CH)	M9484CU-830; Not compatible with M9484CU-814 or M9484CU-822	Customer installable, license key
M9484CU-819	Add 8 virtual channels for SDW streaming to channel 1 (8CH)	M9484CU-827; Not compatible with M9484CU-811 or M9484CU-815	Customer installable, license key
M9484CU-820	Add 8 virtual channels for SDW streaming to channel 2 (8CH)	M9484CU-828; Not compatible with M9484CU-812 or M9484CU-816	Customer installable, license key
M9484CU-821	Add 8 virtual channels for SDW streaming to channel 3 (8CH)	M9484CU-829; Not compatible with M9484CU-813 or M9484CU-817	Customer installable, license key
M9484CU-822	Add 8 virtual channels for SDW streaming to channel 4 (8CH)	M9484CU-830; Not compatible with M9484CU-814 or M9484CU-818	Customer installable, license key

1 This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.

Services, Warranty, and Start-up Assistance

The base configuration includes the following services:

- One day of start-up assistance
- KeysightCare Assured first year support

Model	Description
M9484C-UK6	Commercial calibration certificate with test data
R-55A-001-2	KeysightCare – Extend to 2 years KeysightCare Assured
R-55A-001-3	KeysightCare – Extend to 3 years KeysightCare Assured
R-55A-001-5	KeysightCare – Extend to 5 years KeysightCare Assured

KeysightCare

KeysightCare offers the industry's first cloud-based customer experience with dedicated, proactive support through a single point of contact for instruments, software, and solutions. Get faster response times, faster access to specialized experts and faster time to resolution.

Global warranty

Keysight provides the peace of mind that today's high-tech industry requires. Your investment is protected by Keysight's global reach in more than 100 countries (either directly or through distributors). The warranty gives you convenient standard coverage for the country in which the product is used, eliminating the need to ship equipment back to the country of purchase. Keysight's warranty service provides:

- All parts and labor necessary to return your investment to full specified performance
- Recalibration for products supplied originally with a calibration certificate
- Return shipment

One day Start-up Assistance

To give you the most value from your investment, your Keysight purchase includes Startup Assistance, a service that includes consultation from an expert application engineer. They will help you configure the system and offer training on topics most beneficial to you, anything from theory and basic usage to new features and benefits or even more advanced training specific to your application. Startup Assistance provides a customized consultation, getting you to the results you need more quickly.

Related Literature

For more detailed product and specification information, refer to the following literature and web pages:

- M9484C VXG web page
- M9484C VXG data sheet
- PathWave Signal Generation Brochure

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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