



Agilent E6630A Wireless Connectivity Test Set

Configuration Guide



WLAN

Modernizing Manufacturing Test

The Agilent E6630A wireless connectivity test set is a PXI form-factor one box tester that integrates up to two sets of vector signal analyzer (VSA) and vector signal generator (VSG) pairs. It is designed to accelerate non-signaling-based calibration and verification test of wireless connectivity devices

in high volume manufacturing, including WLAN 802.11a/b/g/n/ac, *Bluetooth*[®] 1.0 to 4.1, and multi-satellite GNSS (GPS, Galileo, GLONASS, etc.) The Agilent E6618A multiport adapter (MPA) connects to the E6630A, providing a seamless extension of the test plane via the MPA's front panel. The compact and

cost-effective MPA adds simultaneous receiver testing, sequential transmitter testing, and simultaneous GNSS testing for up to sixteen single-antenna devices or eight dual-antenna devices, dramatically improving manufacturing throughput while reducing the test equipment footprint and the cost of test.

Anticipate ___ *Accelerate* ___ *Achieve*



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Overview

This configuration guide contains a step-by-step process to help you configure your E6630A wireless connectivity test set, E6618A multiport adapter, related software, and services to meet your specific test requirements.

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What's Included in Base Products

E6630A wireless connectivity test set

- PXIe chassis: 18-slot
- PXIe embedded controller: Dual core, 4 GB RAM, 160 GB SSD, 4 GB/s, Windows Embedded Standard 7 (WES 7) operating system (64 bits)
- Waveform 50-packs (quantity 3): E6630A-250, 251, and 252
- Integrated impact cover
- Country-specific power cord
- Getting Started Guide in hardcopy

E6618A multiport adapter

- USB Type-A to Type-B cable (1 per unit)
- SMA to N-Type RF cables (2 per unit)
- BNC trigger cable (1 per unit)
- Country-specific power cord
- Getting Started Guide in hardcopy

1. Select Hardware for the E6630A Wireless Connectivity Test Set

Step 1. Select the E6630A base configuration with the desired port option (required)

Ordering number	Description
E6630A-001	One-port wireless connectivity test set
E6630A-002	Two-port wireless connectivity test set

Option 001 includes one VSA/VSG pair. Option 002 includes two VSA/VSG pairs

Step 2. Add an additional multiport adapter (optional)

Qty

Ordering number	Description	Qty
E6618A	Multiport adapter for the E6630A For the E6630A-001 (extends to 8 RFIOs and 4 GNSS OUT ports) For the E6630A-002 (extends to 16 RFIOs and 8 GNSS OUT ports)	1 2

E6618A shipment will include the interconnection cables used between the E6630A to E6618A MPA

2. Select Measurement Bandwidth Option for the Platform

Step 1. Choose measurement bandwidth (optional)

Ordering number	Description
E6630A-B1X	160 MHz bandwidth

E6630A's standard bandwidth is 80 MHz. Bandwidth option applies to the platform (E6630A-001 or E6630A-002)

3. Select Software for E6630A Wireless Connectivity Test Set

Step 1. Choose the measurement applications (required)

Transportable perpetual	Fixed perpetual	Description	Additional information
V9077A WLAN measurement application			
V9077A-2TP	V9077A-2FP	WLAN 802.11 a/b/g	
V9077A-3TP	V9077A-3FP	WLAN 802.11 n	Requires V9077A-2FP or -2TP
V9077A-4TP	V9077A-4FP	WLAN 802.11 ac	Requires V9077A-2FP or -2TP, and V9077A-3FP or -3TP
V9081A Bluetooth measurement application			
V9081A-2TP	V9081A-2FP	Bluetooth	

Step 2. Choose the Signal Studio software (optional)

Transportable perpetual	Fixed perpetual	Description
N7617B Signal Studio for WLAN a/b/g/n/ac		
N7617B-9TP	N7617B-9FP	Connects to M9381A, M9252A, and E6630A
N7617B-ETP	N7617B-EFP	Basic WLAN 802.11a/b/g/j/p
N7617B-QTP	N7617B-QFP	Advanced WLAN 802.11a/b/g/j/p
N7617B-FTP	N7617B-FFP	Basic WLAN 802.11n
N7617B-RTP	N7617B-RFP	Advanced WLAN 802.11n
N7617B-STP	N7617B-SFP	Update to WLAN 802.11n
N7617B-GTP	N7617B-GFP	Basic WLAN 802.11ac
N7617B-TTP	N7617B-TFP	Advanced WLAN 802.11ac
N7617B-HTP	N7617B-HFP	Update to 802.11a/b/g/j/p/n
N7606B Signal Studio for Bluetooth		
N7606B-9TP	N7606B-9FP	Connect to M9381A, M9252A, and E6630A
N7606B-QTP	N7606B-QFP	Advanced Bluetooth V 1.1
N7606B-RTP	N7606B-RFP	Advanced Bluetooth V 2.1+EDR
N7606B-STP	N7606B-SFP	Advanced Bluetooth Low Energy
N7609B Signal Studio for GNSS		
N7609B-9TP	N7609B-9FP	Connect to M9381A, M9252A, and E6630A
N7609B-ETP	N7609B-EFP	Basic single satellite waveforms

N76xxB-9FP and -9TP connect to M9381A, M9252A and E6630A option is required to add basic, advanced, or update options; the basic option is required to add advanced and update options.

3. Select Software for E6630A Wireless Connectivity Test Set *continued*

Step 3. Choose the Waveform 5 and 50-packs (optional)

Ordering number	Description
E6630A-221-229	Waveform license 5-packs 1 to 9
E6630A-253-259	Waveform license 50-packs 4 to 10

All software licenses apply to the platform (E6630A-001 or E6630A-002)

4. Select Accessories for E6630A Wireless Connectivity Test Set

Step 1. Choose the accessories (optional)

Ordering number	Description
E6630A-KYB	Keyboard, USB
E6630A-MSE	Mouse, USB

5. Select Services, Warranty, Calibration, and Start-Up Assistance

Step 1. Choose a warranty plan (optional)

Ordering number	Description	Note
Standard	3 years return-to-Agilent warranty	Available for both the E6630A and E6618A at no additional charge
R-51B-001-5C	5 years return-to-Agilent warranty	Available for the E6630A and E6618A. Order warranty for each unit separately

Step 2. Choose a calibration service (optional)

Ordering number	Description	Note
R-50C-011-3	Agilent upfront calibration support plan: 3 years	Available for the E6630A and E6618A. Order support for each unit separately
R-50C-011-5	Agilent upfront calibration support plan: 5 years	Available for the E6630A and E6618A. Order support for each unit separately

Step 3. Choose services (optional)

Ordering number	Description
PS-S20	Startup assistance
PS-S20-01	Recommended startup assistance
PS-S10	Remote scheduled productivity assistance. Select 1 to 999 hours
PS-X10	Custom services to be qualified by an Agilent technical consultant

6. Select Upgrades

Hardware upgrades	
Upgrade from 1-port to 2-port	
Ordering number	Description
E6630AU-002	Upgrade from E6630A-001 to E6630A-002
Bandwidth upgrades	
Ordering number	Description
E6640AU-B1X	Upgrade from 80 MHz to 160 MHz
Software upgrades	
Ordering number	Description
E6630AU-221-229	Waveform license 5-pack 1 to 9 upgrades
E6630AU-253-259	Waveform license 50-pack 4 to 10 upgrades
<i>Note: Measurement applications and Signal Studio software can be ordered standalone as upgrade.</i>	
Accessory upgrades	
Ordering number	Description
E6630AU-KYB	Keyboard, USB
E6630AU-MSE	Mouse, USB

7. Configuration Examples

One-port configurations		
WLAN (802.11a/b/g/n/ac)	Bluetooth only	WLAN and Bluetooth
E6630A-001	E6630A-001	E6630A-001
V9077A-2FP or 2TP	V9081A-2FP or 2TP	V9077A-2FP or 2TP
V9077A-3FP or 3TP		V9077A-3FP or 3TP
V9077A-4FP or 4TP		V9077A-4FP or 4TP
		V9081A-2FP or 2TP
When adding an MPA also order		
E6618A (Qty 1 required)	E6618A (Qty 1 required)	E6618A (Qty 1 required)
Two-port configurations		
WLAN (802.11a/b/g/n/ac)	Bluetooth only	WLAN and Bluetooth
E6630A-002	E6630A-002	E6630A-002
V9077A-2FP or 2TP	V9081A-2FP or 2TP	V9077A-2FP or 2TP
V9077A-3FP or 3TP		V9077A-3FP or 3TP
V9077A-4FP or 4TP		V9077A-4FP or 4TP
		V9081A-2FP or 2TP
When adding an MPA also order		
E6618A (Qty 2 required)	E6618A (Qty 2 required)	E6618A (Qty 2 required)

For More Information

E6630A Wireless Connectivity Test Set – Modernizing Manufacturing Test, flyer, literature number [5991-2296EN](#)

E6630A Wireless Connectivity Test Set, data sheet, literature number [5991-3668EN](#)



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