

Wireless Connectivity Test Set MT8862A





Have you measured me up?





MT8862A

Ideal for RF TRx Tests of WLAN Devices

Wireless communications over WLAN are increasing rapidly due to the widespread use of mobile terminals, such as smartphones, as well as integration of network-connected TVs, cleaners, automobiles, industrial equipment, sensors, and more, into the Internet of things (IoT). Makers of these equipment are anticipating more end-user enquiries related to WLAN performance, including network coverage, reception sensitivity, etc.

Anritsu's Wireless Connectivity Test Set is ideal for measuring the RF TRx characteristics at design and manufacturing inspection of WLAN devices. It has a built-in Network Mode for measuring the performance of the WLAN DUT under realistic operation conditions to play a key role in quality evaluation and improvement.

11ax

6 GHz Band

Supports Latest Technologies

MT8862A supports IEEE802.11a/b/g/n/ac and the latest WLAN standard, IEEE802.11ax, as well as the 6 GHz band, which is becoming an unlicensed band worldwide. RF TRx characteristics such as transmit power, modulation accuracy, and receive sensitivity can be evaluated for a variety of diversified WLAN-equipped devices.

Network Mode

Direct Mode

Measurement under Realistic Operation Conditions

The MT8862A uses standard WLAN protocol messaging with a built-in Network Mode to establish a connection with the WLAN device and measure the RF TRx characteristics under realistic operation conditions. Also the MT8862A supports Direct Mode.



Smartphone Tablet





Smart appliances



Wearable device



Gateway



Automotive



Smart grid



AR/VR



Medical device

Wireless Connectivity Test Set MT8862A

RF TRx Measurements of WLAN Equipment

The Wireless Connectivity Test Set MT8862A is designed for measuring the RF TRx characteristics of WLAN equipment. It has standard WLAN protocol messaging (WLAN signalling) to connect with the device under test (DUT) for measuring the TRx performance items as Network Mode. It is the biggest feature of MT8862A. MT8862A gives manifold inspections for WLAN equipment because it also supports Direct Mode.

Supported Communications Standards • Security encryption

WLAN IEEE802.11a/b/g/n/ac/ax (2.4 GHz, 5 GHz and 6 GHz bands) [AP/STA] WEP, WPA-Personal, WPA2-Personal and WPA3-Personal



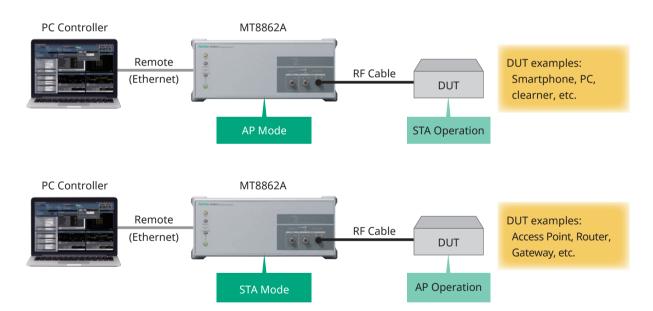
Wireless Connectivity Test Set MT8862A

RF Performance Measurement under Actual Operation Conditions (Network Mode)

By using the MT8862A Network Mode, RF TRx characteristics, such as Tx power, modulation accuracy (EVM), etc., can be measured with the WLAN device in actual operation conditions. It is not necessary to put the DUT into dedicated test mode and directly control the DUT. The DUT RF performance can be quantified under the firmware conditions at actual shipment.

Easy Measurement Environment Configuration

The MT8862A can simulate access points (AP) and station (STA) to establish the DUT network connection using IEEE802.11a/b/g/n/ac/ax WLAN protocol messaging. Each WEP, WPA-Personal, WPA2-Personal and WPA3-Personal secure connection method is supported, and TKIP and AES encryption schemes can be selected by combination with each standard. When the connection is established, RF measurements can be made using general WLAN communications procedures without requiring special tools and control procedures, eliminating the need for configuring a special measurement environment.



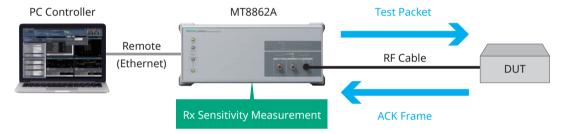
ICMP Echo Request for Tx Measurement

With the ICMP echo request, the MT8862A can measure RF Tx characteristics of reply packets from the DUT. The measurement targets are both data frames and ACK frames.



Rx Sensitivity Measurements using ACK Frame Count for Bathtub Curve Generation

The MT8862A supports Rx sensitivity measurements using the ACK frame count; counting the ACK frames sent by the DUT versus the test packets sent from the MT8862A supports calculation of the packet error rate (PER). Packets can be sent while lowering the power level by setting the power level range (0 to –120 dBm) and step size, and the Rx sensitivity Bathtub curve can be generated automatically. Packets including MAC address and payload length can be configured in real-time for measurement at various data rates.



Web Browser GUI Operation Immediately after Connection

Connect the MT8862A to the external PC using an Ethernet cable for instant access from the Web browser to complete setup of the GUI operation environment without requiring test setup operation.

The Web-browser based GUI eliminates usage worries about version matching with the main frame firmware. Additionally, the MT8862A remote control port supports the DHCP client function and both host and domain name settings offer easy control simply by connecting the PC controller and MT8862A to the same network.



WLAN Measurement Software MX886200A Features

Function Test

Frame Capture Logging for Troubleshooting Connection Problems

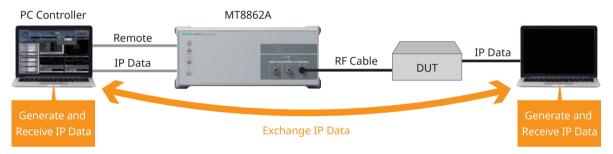
With built-in frame capture logging function, the MT8862A can capture and save frame logs for troubleshooting DUT connection problems. Captured logs are in the *.pcap format for viewing by supported applications, making it easier to analyze DUT connection problems.



IP Data Transfer using Connection Verification Test

The Ethernet port on the back panel of the MT8862A can be used for exchanging IP data with an external server; IP connections between the client PC connected to the DUT and the external server connected to the MT8862A can be checked using the ping function, etc.

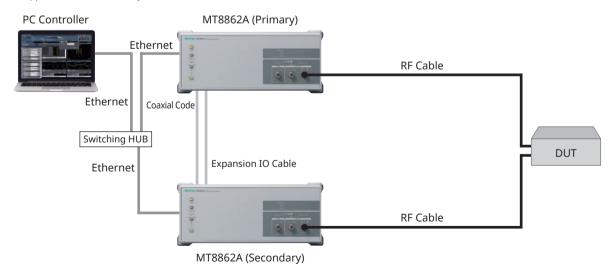
* This function does not support MIMO, does not support 802.11ax.



Receiver Sensitivity and Transmit Power Measurement Function for 2×2 MIMO

Receiver sensitivity and transmit power measurement under 2×2 MIMO communication can be tested by using 2 sets of MT8862A. This is suitable for RF performance evaluation for completed products.

* This function supports IEEE802.11n/ac only.



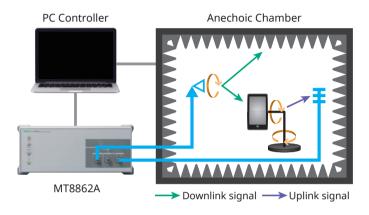
WLAN Measurement Software MX886200A Features

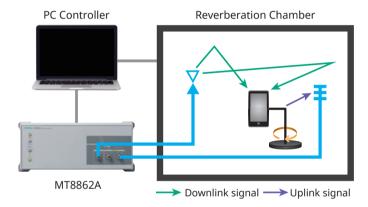
Application Test

Network Mode for Over The Air (OTA) Test

The TRx performance of wireless terminals is affected by factors such as the terminal form and antenna characteristics. The OTA test measures the general TRx performance of the wireless terminal using actual radio waves. The WLAN OTA test measures RF performance specifications in accordance with the recommendations of CTIA* and the Converged Wireless Group (CWG) of the Wi-Fi Alliance, including Total Radiated Power (TRP), Total Isotropic Sensitivity (TIS), System integrators have test solution using MT8862A.

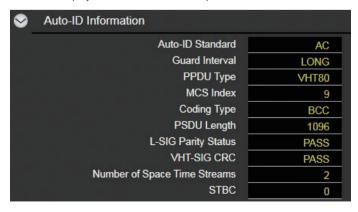
*: Cellular Telecommunications & Internet Association; international non-profit organization composed of wireless-communications-related businesses, manufacturers, service providers, etc.





Auto-ID information display

MT8862A displays header information of packets used for transmit measurement as Auto-ID Information.



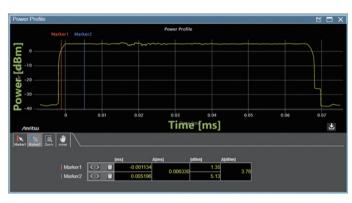
WLAN Measurement Software MX886200A Key Functions

RF Tx Test

Tx Power Measurement and Power Profile Display

The MT8862A measures the Tx power and displays the average and peak power. The crest factor indicating the difference between the average power and peak power and the power-on ramp time and power-off ramp time indicating the time of ringing and falling are also displayed. The power profile is displayed as a graph of the power vs time for the signal.

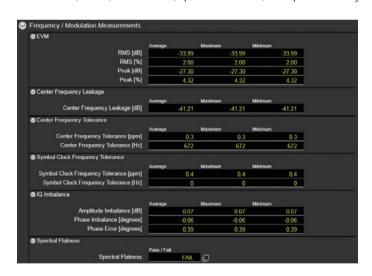


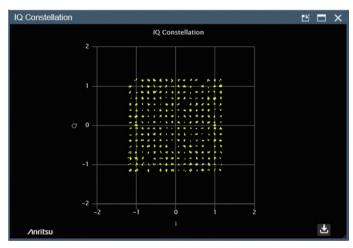


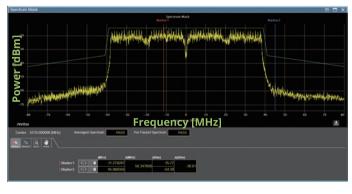
Frequency and Modulation Analysis/IQ Constellation Display/Spectrum Display

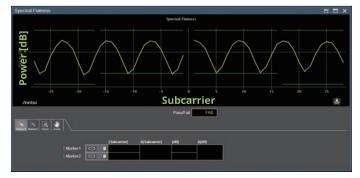
The MT8862A performs frequency and modulation analyses to measure the Error Vector Magnitude (EVM), which is a good of overall indicator of transmitter quality. When the numerical EVM is bad, the Packet Error Rate (PER) is usually high at WLAN connection. The RMS EVM and Peak EVM for DSSS- and OFDM-modulated carrier waves are expressed as % and dB values, respectively.

In case of OFDM modulation, in addition to EVM, Center Frequency Leakage, Center Frequency Tolerance, Symbol Clock Frequency Tolerance, IQ Imbalance, and Spectral Flatness are also displayed. In case of DSSS modulation, in addition to EVM, Center Frequency Tolerance, IQ Offset, Phase & Magnitude Error, IQ Imbalance, Chip Clock Frequency Tolerance, and Carrier Suppression from IQ Offset are also displayed. Furthermore, the IQ constellation, spectrum flatness, and spectrum analysis results are displayed as graphs.









WLAN Measurement Software MX886200A Key Functions

RF Rx Test

Packet Error Rate (PER)

The MT8862A Network Mode is a unique function that can use general communication method and instead automatically implements the 802.11a/b/g/n/ac/ax device sensitivity search measurement to output the Bathtub curve. By using this function, the device performance can be analyzed at high speed for each data rate, offering a convenient measurement solution for verifying compliance with the 802.11b minimum receiver sensitivity test specifications. This is a flexible test solution because the number of packets sent at each power level can be specified both as the start and stop search level and as step size.



Frame Rx rate (FRR)

The Frame Rx Rate can be displayed instead of displaying the Packet Rx Error Rate (PER).



WLAN Measurement Software MX886200A Key Functions

Connectivity

	802.11a
Frequency Range	5180 MHz to 5885 MHz*1
Operation Mode	_
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Data Rate	6, 9, 12, 18, 24, 36, 48, 54 Mbps
Security*2	WEP, WPA-Personal, WPA2-Personal, WPA3-Personal

	802.11b	802.11g
Frequency Range	2412 MHz to 2484 MHz	
Operation Mode	_	ERP-OFDM
Modulation	DSSS, CCK	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Data Rate	1, 2, 5.5, 11 Mbps	6, 9, 12, 18, 24, 36, 48, 54 Mbps
Security*2	WEP, WPA-Personal, WPA2-Personal	

	802.11n	802.11ac*5	
Frequency Range	2412 MHz to 2484 MHz and 5180 MHz to 5885 MHz*1	5180 MHz to 5885 MHz*1	
Bandwidth	20 MHz, 40 MHz	20, 40, 80, 160 MHz* ⁶	
MCS	MCS0 to MCS7, MCS0 to MCS15*3	MCS0 to MCS9*6	
FEC	BCC	BCC	
PPDU Format	HT-mixed, HT-greenfield*4	VHT	
Guard Interval Type	Long, Short	Long, Short	
RF Chain	Single (SISO), 2×2MIMO*3	Single (SISO), 2×2MIMO*3	
Security*2	WPA-Personal, WPA2-Personal		

	802.11ax* ⁷			
Frequency Range	2412 MHz to 2484 MHz, 5180 MHz to 5885 MHz, 5955 MHz to 7115 MHz*1			
Bandwidth	20, 40 MHz (2.4 GHz Band) 20, 40, 80, 160 MHz (5 GHz Band)*8 20, 40, 80, 160 MHz (6 GHz Band)*8			
MCS	MCS0 to MCS11			
FEC	BCC, LDPC			
PPDU Format	Tx measurement: HE SU, HE TB			
Guard Interval Type	Rx measurement: HE SU			
Guard interval and HE-LTF type	HE SU 0.8 μs GI, 1xHE-LTF 0.8 μs GI, 2xHE-LTF 1.6 μs GI, 2xHE-LTF 0.8 μs GI, 4xHE-LTF 3.2 μs GI, 4xHE-LTF HE TB 1.6 μs GI, 2xHE-LTF 3.2 μs GI, 4xHE-LTF			
RF Chain	Single (SISO)			
Security*2	WPA-Personal, WPA2 -Personal, WPA3-Personal			

^{*1:} The frequencies above 5825 MHz require MT8862A-002 and MT8862A-010.

^{*2:} Secure connections require the MX886200A-020

^{*3:} Available when measure 2×2MIMO receiver sensitivity using MX886200A-010.

^{*4:} Only receiver sensitivity testing is supported in 2×2MIMO.

^{*5: 802.11}ac connection requires MX886200A-001

^{*6:} MCS9 is only available on 40 MHz or 80 MHz bandwidth.

^{*7: 802.11}ax connection requires MX886200A-002

^{*8: 160} MHz bandwidth require MX886200A-030.

WLAN Measurement Software MX886200A Measurement Items

Tx Measurements

Items by Standards

IEEE 802.11-2020: 802.11b

802.11b	Measurement Items
16.3.7.2	Transmit power levels
16.3.7.4	Transmit spectral mask
16.3.7.5	Transmit center frequency tolerance
16.3.7.6	Chip clock frequency tolerance
16.3.7.7	Transmit power-on and power-down ramp
16.3.7.9	Transmit modulation accuracy

IEEE802.11-2020: 802.11a/g/n/ac Tx Measurements*1

802.11a	802.11g	802.11n	802.11ac	Measurement Items
17.3.9.2	18.4.7.2	19.3.18.3	N/A	Transmit power levels
17.3.9.3	18.4.7.3	19.3.18.1	21.3.17.1	Transmit spectrum mask*2
17.3.9.5	18.4.7.4	19.3.18.4	21.3.17.3	Transmit center frequency tolerance
17.3.9.6	18.4.7.5	19.3.18.6	21.3.17.3	Symbol clock frequency tolerance
17.3.9.7.2	17.3.9.7.2	19.3.18.7.2	21.3.17.4.2	Transmitter center frequency leakage
17.3.9.7.3	17.3.9.7.3	19.3.18.2	21.3.17.2	Transmitter spectral flatness
17.3.9.7.4	17.3.9.7.4	19.3.18.7.3	21.3.17.4.3	Transmitter constellation error
17.3.9.8	17.3.9.8	19.3.18.7.4	21.3.17.4.4	Transmitter modulation accuracy test

IEEE 802.11ax-2021: 802.11ax Tx Measurements*3

802.11ax	Measurement Items
27.3.15.3	Pre-correction accuracy requirements*4
27.3.19.1	Transmit spectral mask*5
27.3.19.2	Spectral flatness
27.3.19.3	Transmit center frequency and symbol clock frequency tolerance
27.3.19.4.2	Transmit center frequency leakage
27.3.19.4.3	Transmitter constellation error
27.3.19.4.4	Transmitter modulation accuracy (EVM) test

- *1: 802.11ac Tx measurement requires MX886200A-001
 *2: Frequency SPAN of 802.11ac Network Mode supports up to ±80 MHz
 *3: 802.11ax Tx measurement requires MX886200A-002
 *4: Measure the error between DUT transmission power and Target RSSI
 *5: Frequency SPAN of 802.11ax Network Mode supports up to ±80 MHz

Measurement Items

MT8862A 11b Measurement Items
Transmit power
Crest factor
Power ramp
EVM (Transmit modulation accuracy)
Center frequency tolerance
IQ offset
Phase error
Magnitude error
Amplitude imbalance
Phase imbalance
Chip clock frequency tolerance
Carrier suppression from IQ offset
Spectrum mask

14T00C04.44 11E CU (C' 1 11) 14
MT8862A 11ax HE SU (Single User) Measurement Items
Transmit power
Crest factor
Power ramp
EVM (Transmit modulation accuracy)
Center frequency leakage
Center frequency tolerance
Symbol clock frequency tolerance
Amplitude imbalance
Phase imbalance
Phase error
Spectrum flatness
Spectrum mask

MT8862A 11ax HE TB (Multi User) Measurement Items
Transmit power
Power pre-correction accuracy
Crest factor
Power ramp
EVM (Transmit modulation accuracy)
Unused tone error
Center frequency leakage
Center frequency tolerance
Center frequency offset
Amplitude imbalance
Phase imbalance
Phase error
Spectrum flatness
Spectrum mask

WLAN Measurement Software MX886200A Measurement Items

Tx Measurements

Graph Display Items

MT8862A 11b Graph Display Items	
IQ Constellation	
Power Profile	
Spectrum Mask	

MT8862A 11a/g/n/ac Graph Display Items
IQ Constellation
Power Profile
Spectrum Mask
Spectrum Flatness

MT8862A 11ax Graph Display Items
IQ Constellation
Power Profile
Spectrum Mask
Spectrum Flatness
Carrier Frequency Offset Error (CCDF)*
Unused Tone Error

^{*:} Available on HETB format.

Rx Measurements

IEEE802.11-2020: 802.11b Rx Measurements

802.11b	Measurement Item
16.3.8.2	Receiver minimum input level sensitivity
16.3.8.3	Receiver maximum input level
16.3.8.4	Receiver adjacent channel rejection*1

IEEE802.11-2020: 802.11a/g/n/ac Rx Measurements*2

802.11a	802.11g	802.11n	802.11ac	Measurement Item	
17.3.10.2	18.4.8.2	8.4.8.2 19.3.19.1		Receiver minimum input level sensitivity	
17.3.10.3	18.4.8.3	19.3.19.2	21.3.18.2	Adjacent channel rejection*1	
17.3.10.4	17.3.10.4	19.3.19.3	21.3.18.3	Nonadjacent channel rejection*1	
17.3.10.5	18.4.8.4	19.3.19.4	21.3.18.4	Receiver maximum input level	

IEEE 802.11ax-2021: 802.11ax Rx Measurements*3

802.11ax	Measurement Item
27.3.20.2	Receiver minimum input sensitivity
27.3.20.3	Adjacent channel rejection*1
27.3.20.4	Nonadjacent channel rejection*1
27.3.20.5	Receiver maximum input level

Graph Display

Measurement Item	
Packet Error Rate (PER)	_
Frame Reception Rate (FRR)	

^{*1:} Sold separately; requires signal generator

^{*2: 802.11}ac Rx measurement requires MX886200A-001

^{*3: 802.11}ax Rx measurement requires MX886200A-002

Wireless Connectivity Test Set MT8862A Configuration

System Configurations/Options/Software/PC Controller Operation Environment

System	Wireless LAN	
Main Frame	Wireless Connectivity Test Set MT8862A	
Basic Configuration (Hardware)	RF Frequency 2.4 GHz, 5 GHz MT8862A-001	
Basic Configuration (Software)	WLAN Measurement Software MX886200A	
Option (Hardware) RF Frequency 6 GHz MT8862A-002 Extended RF Hardware MT8862A-010		
Options (Software)	WLAN 802.11ac Option MX886200A-001 WLAN 802.11ax Option MX886200A-002 2×2MIMO Measurement Software MX886200A-010 WLAN Security Function MX886200A-020 160 MHz Bandwidth MX886200A-030	

Verified PC Operation Environment

PC	Software OS: Windows 10 Browser: Chrome CPU: Intel Core i5 processor Clock: 2.5 GHz Memory: 1 GB minimum Hard Disk: 500 MB minimum free space LAN: 100 Base-T LAN (1000-base T preferred)	
Peripherals	Display: WXGA 1024 × 768 minimum	

Options Configuration Guide

Hardware

✓ = Require

Name	Retrofit	Hardware Configuration		
Name		001	002	010
RF Frequency 2.4 GHz, 5 GHz (Minimum configuration)		✓		
RF Frequency 2.4/5/6 GHz Yes		✓	✓	✓

Software

Model Name -	Hardware configuratio ✓ = Can be installed, N			
	001 (2.4 GHz, 5 GHz)	001, 002, 010 (2.4 GHz, 5 GHz, 6 GHz)	Note	
MX886200A	WLAN Measurement Software	✓	✓	Support 802.11b/g/a/n
MX886200A-001	WLAN 802.11ac Option	✓	✓	
MX886200A-002	WLAN 802.11ax Option	✓	✓	
MX886200A-010	2×2MIMO Measurement Software	✓	✓	Support 802.11n/ac
MX886200A-020	WLAN Security Function	✓	✓	
MX886200A-030	160 MHz Bandwidth	No	✓	

Wireless Connectivity Test Set MT8862A Panel Layout

Front Panel



1 Power switch

Turns the power On or Off.
Off: Power is Off, Green: Power is On.

Standby lamp

The power is supplied to the AC inlet and the power switch can be turned On.

Access lamp

Green: Accessing the built-in storage device.

4 IP Address Reset key

Long-pressing this switch resets the network settings such as IP address to defaults.

5 External Ref. lamp

Indicates status of external reference signal.

6 System Error lamp

Indicates errors of the unit.

Local key

Reset the remote control state by Ethernet to local and enable panel setting.

8 Remote lamp

Off: Local control.

Green: Remote control.

Preset key

Long-pressing this switch resets the parameter settings to defaults.

Ready lamp/Connect lamp/ Measure lamp

Ready lamp: Indicates the MT8862A startup state.
Connect lamp: Indicates the connection state between
MT8862A and DUT.

Measure lamp: Indicates the MT8862A measurement state.

1 Input Signal Level lamp

Indicates the input signal level.

PRF Output On/Off lamp

Indicates setting state of RF output.

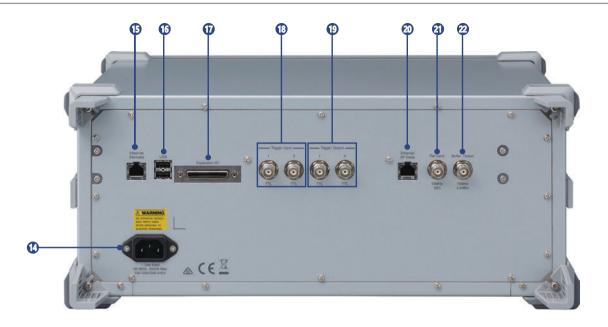
(3) Main In/Out 1, 2 connector/Aux Out connector/ Output lamp/Input lamp

Main In/Out 1, 2 connector: Inputs or outputs RF signal. Aux Out connector: Outputs RF signal.

Output lamp: Indicates the connector's setting state. Input lamp: Indicates the connector's setting state.

Wireless Connectivity Test Set MT8862A Panel Layout

Rear Panel



- **AC inlet**AC power inlet for the power cable.
- Ethernet (Remote) connector Connect a personal computer (PC) or Ethernet network for remote control.
- **USB connector (A type)**Connector for feature expansion.
 Currently not supported.
- **Expansion I/O connector**Connector for synchronization of MT8862A Primary/Secondary for MIMO Measurement.
- Trigger Input Inputs external trigger signals (TTL). (BNC connector)

- Trigger Output
 Outputs trigger signals (TTL).
 (BNC connector)
- Ethernet (IP Data) connector Connects a PC or Ethernet network for IP Data input/output.
- Reference Input connector Inputs an external reference frequency signal (10 MHz). (BNC connector)
- Buffer Output connector Outputs the reference frequency signal (10 MHz). (BNC connector)

	Frequency
	Range
	MT8862A-001 installed: 2.4 GHz to 2.5 GHz, 5.0 GHz to 6.0 GHz
	MT8862A-002, 010 installed: 6.0 GHz to 7.3 GHz
	Setting Resolution: 1 Hz
	Accuracy: Depends on reference oscillator accuracy
	Level
	Setting Range: –65 to +25 dBm Setting Resolution: 0.1 dB
	Accuracy
	Measurement Conditions: CW, Measurement Bandwidth: 300 kHz, 20°C to 30°C, Input signal lower than setting level and excluded
	influence of linearity error, after calibration
	2.4 GHz ≤ Frequency ≤ 2.5 GHz
	±0.7 dB (-30 dBm ≤ Setting Level ≤ +25 dBm)
	±0.9 dB (-55 dBm ≤ Setting Level < -30 dBm)
	±1.1 dB (-65 dBm ≤ Setting Level < -55 dBm)
	5.0 GHz ≤ Frequency ≤ 6.0 GHz
	±0.7 dB (–30 dBm ≤ Setting Level ≤ +25 dBm)
	±0.9 dB (–55 dBm ≤ Setting Level < –30 dBm)
	±1.1 dB (–65 dBm ≤ Setting Level < –55 dBm)
Receiver	6.0 GHz < Frequency ≤ 7.3 GHz
	±0.7 dB (−30 dBm ≤ Setting Level ≤ +25 dBm)
	±0.9 dB (-55 dBm ≤ Setting Level < -30 dBm)
	±1.1 dB (-65 dBm ≤ Setting Level < -55 dBm)
	Measurement Conditions: CW, Measurement Bandwidth: 160 MHz, 20°C to 30°C, Input signal lower than setting level and excluded
	influence of linearity error, after calibration
	2.4 GHz ≤ Frequency ≤ 2.5 GHz
	±0.7 dB (-30 dBm ≤ Setting Level ≤ +25 dBm) ±1.0 dB (-50 dBm ≤ Setting Level < -30 dBm)
	5.0 GHz ≤ Frequency ≤ 6.0 GHz
	±0.7 dB (-30 dBm ≤ Setting Level ≤ +25 dBm)
	±1.0 dB (-50 dBm ≤ Setting Level < -30 dBm)
	6.0 GHz < Frequency ≤ 7.3 GHz
	±0.7 dB (–30 dBm ≤ Setting Level ≤ +25 dBm)
	±1.0 dB (-50 dBm ≤ Setting Level < -30 dBm)
	Linearity
	Measurement Conditions: CW, Measurement Bandwidth: 300 kHz, 0 to –40 dB of setting level
	±0.2 dB (-55 dBm ≤ Input Level)
	±0.4 dB (–65 dBm ≤ Input Level < –55 dBm)
	Measurement Conditions: CW, Measurement Bandwidth: 160 MHz, 0 to –40 dB of setting level
	±0.4 dB (–40 dBm ≤ Input Level)
	Frequency
	Output Frequency Range
	MT8862A-001 installed: 2.4 GHz to 2.5 GHz, 5.0 GHz to 6.0 GHz
	MT8862A-002, 010 installed: 6.0 GHz to 7.3 GHz
	Setting Resolution: 1 Hz
	Accuracy: Depends on reference oscillator accuracy
	Level Setting Range: –120 to 0 dBm
Transmitter	Setting Resolution: 0.1 dB
Transmitter	Accuracy
	Output Setting: CW
	20°C to 30°C, Output Level: ≥–110 dBm, after Calibration
	± 1.0 dB, ± 0.7 dB (typ.) (2.4 GHz \leq Frequency \leq 2.5 GHz)
	± 1.3 dB, ± 1.0 dB (typ.) (5.0 GHz ≤ Frequency ≤ 6.0 GHz)
	± 1.3 dB, ± 1.0 dB (typ.) (6.0 GHz < Frequency ≤ 7.3 GHz)
	Signal Purity
	Harmonic: ≤–25 dBc
	At Start: $\pm 5 \times 10^{-7}$ (2 minutes after power-on, at 25°C referenced to frequency at 24 hour after power-on)
	$\pm 5 \times 10^{-8}$ (5 minutes after power-on, at 25°C referenced to frequency at 24 hour after power-on)
Reference Oscillator	Aging Rate: $\pm 1 \times 10^{-7}$ /year
	Temperature Characteristics: ±2 × 10 ⁻⁸ (5°C to 45°C)
	Shipped Frequency Accuracy: $\pm 2.2 \times 10^{-8}$ (1 hour after power-on at 20°C to 30°C)

Wireless Connectivity Test Set MT8862A Specifications

Front Panel Connectors	RF Input/Output Main1, 2 Connector: N-J, 50Ω (nominal) VSWR: ≤ 1.5 (2.4 GHz \leq Frequency \leq 2.5 GHz) ≤ 1.7 (5.0 GHz \leq Frequency \leq 6.0 GHz) ≤ 1.7 (6.0 GHz $<$ Frequency \leq 7.3 GHz) Aux Out Connector: N-J, 50Ω (nominal) VSWR: ≤ 1.5 (2.4 GHz \leq Frequency \leq 2.5 GHz) ≤ 1.6 (5.0 GHz \leq Frequency \leq 6.0 GHz) ≤ 1.6 (6.0 GHz $<$ Frequency \leq 7.3 GHz)
Back Panel Connectors	Reference Signal External Reference Input Connector: BNC-J Frequency: 10 MHz, Impedance: 50Ω Operation range: ±1 ppm, Input Level: −15 dBm ≤ Level ≤+20 dBm, 50Ω (AC coupled) Reference Signal Output Connector: BNC-J Frequency: 10 MHz, Impedance: 50Ω Output Level: ≥0 dBm (AC coupled)) External Trigger Trigger Input 1/2 Connector: BNC 1/2, Input Level: TTL Trigger Output 1/2 Connector: BNC 1/2, Output Level: TTL External Interfaces Ethernet (Remote): Required for remote control from external controller Connector: RJ-45, Speed: 1000BASE-T USB: General Purpose, USB 2.0 Connector: USB-A, 2 Ports Expansion I/O: Connector for function expansion Connector: SJ-45, Speed: 1000BASE-T Ethernet (IP Data): IP Data Transfer Connector: RJ-45, Speed: 1000BASE-T
Dimensions and Mass	426 (W) × 177 (H) × 390 (D) mm (excluding projections), ≤14 kg
Power Supply	Rated voltage: 100 V(ac) to 120 V(ac) or 200 V(ac) to 240 V(ac) Rated frequency: 50 Hz/60 Hz Power consumption: ≤350 VA
Operating Conditions	Temperature Operating: +5°C to +45°C, Storage: -20°C to +60°C
CE	EMC: 2014/30/EU, EN61326-1, EN61000-3-2 LVD: 2014/35/EU, EN61010-1 RoHS: 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018
UKCA	EMC: S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD: S.I. 2016 No.1101, EN 61010-1 RoHS: S.I. 2012 No.3032, EN IEC 63000: 2018

WLAN Measurement Software MX886200A Specifications

2.4 GHz Band: 2412 MHz to 2484 MHz (with MT8862A-001 installed) 5 GHz Band: 5180 MHz to 5825 MHz (with MT8862A-001) (x002 of 10 installed) 6 GHz Band:5190 MHz to 5825 MHz (with MT8862A-001, 002, 010 installed) 6 GHz Band:5955 MHz to 7115 MHz (with MT8862A-001, 002, 010 installed) Input Level Range: -50 to -25 dBm Input Level Accuracy: After calibration at 20°C to 30°C Correct Accuracy: After calibra
Frequency Range
See Seed Seed Seed Seed Seed Seed Seed
Input Level Range: -50 to +25 dBm Input Level Accuracy: After calibration at 20°C to 30°C 10°7 dB (-30 dBm ≤ Input Level <-30 dBm) 10°B (-50 dBm ≤ Input Level <-30 dBm) 10°B (-50 dBm
Input Level Accuracy: After calibration at 20°C to 30°C ±0.7 dB (~30 dBm ≤ Input Level ≤ +25 dBm) ±1.0 dB (~50 dBm ≤ Input Level ≤ +25 dBm) ±1.0 dB (~50 dBm ≤ Input Level (~30 dBm) Linearity: ±0.4 dB (~40 dBm ≤ Input Level (~30 dBm) Linearity: ±0.4 dB (~40 dBm ≤ Input Level (~30 dB range compared to setting level) Bandwidth: 40 MHz/20 MHz (80.211n, 20 MHz (80.211a/z)/yl, 160/80/40/20 MHz (80.2.11ac, with MX886200A-001, 160/80/40/20 MHz (80.2.11ac, with MX886200A-002, 303 installed) Spectrum Measurement Input Level Range: ~10 to +25 dBm EVM Measurement Range: ~20 to +25 dBm Residual EVM DSSS: <~28 dB (~20 dBm ≤ Input Level, Average of 20 Packets) OFDM (802.11ac, with MX886200A-001 installed): <~38 dB (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ac, with MX886200A-001 installed): <~38 dB (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 103 installed): <-4d b (Inom) (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-4d b (Inom) (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-4d b (Inom) (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): -4d b (Inom) (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): -4d b (Inom) (~10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: ~20 to +25 dBm Carrier Frequency Boc 11ac/yl/Ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ac ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ac ± (Settin
1.0 dB (~30 dBm s Input Level (~30 dBm) Linearity: ±0.4 dB (~40 dBm s Input Level (~30 dBm) Linearity: ±0.4 dB (~40 dBm s Input Level (~30 dBm) Linearity: ±0.4 dB (~40 dBm s Input Level (~30 dBm) Bandwidth: 40 MHz/20 MHz (802.11nz, vib MHz (802.11nz, vib), 160/80/40/20 MHz (802.11nz, vib), 160/80/40/40/40/40/40/40/40/40/40/40/40/40/40
#############################
Linearity: ±0.4 dB (-40 dBm ≤ Input Level, 0 to -30 dB range compared to setting level)
Bandwidth: 40 MHz/20 MHz (802.11n, 20 MHz (802.11a/b/g), 160/80/40/20 MHz (802.11ac, with MX886200A-001 installed), 160/80/40/20 MHz (802.11ac, with MX886200A-002, 030 installed)
Spectrum Measurement Input Level Range: −10 to +25 dBm
Spectrum Measurement Input Level Range: -10 to +25 dBm
EVM Measurement Range: -20 to +25 dBm Residual EVM DSSS: <-28 dB (-20 dBm ≤ Input Level, Average of 20 Packets) OFDM (802.11a/g/n): <-40 dB (-20 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ac, tof MHz bandwidth, with MX886200A-001, 1030 installed): <-34 dB (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packet OFDM (802.11ac, tof MHz bandwidth, with MX886200A-001, 030 installed): <-44 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ax, with MX886200A-002 030 installed): <-44 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom). (-10 dBm ≤ Input level, Average of 20 Packets, Channel Estimate: Full Packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency Accuracy Secting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Norm), (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1
Residual EVM DSSS: <-28 dB (-20 dBm ≤ Input Level, Average of 20 Packets) OFDM (802.11a/g/n); <-40 dB (-20 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ac, with MX886200A-001 installed): <-38 dB (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets OFDM (802.11ac, with MX886200A-001 installed): <-38 dB (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ac, ind MHz bandwidth, with MX886200A-001, 030 installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ax, with MX886200A-002 installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) Weasurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency Measurement Evel Range: -20 to +25 dBm Carrier Frequency Accuracy 802.11b: ½ (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ac ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ac ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Band 24 GHz/5 GHz) -120 to 0 dBm (Main 1/2 Connector, Frequency + 1 kHz) (Average of 20 Packets, Channel Band Card GHz) EVM: Packet Length 1472 byte 802.11ac ± -38 dB rms (5180 MHz to 58
DSSS: <-28 dB (-20 dBm ≤ Input Level, Average of 20 Packets) OFDM (802.11a/g/m): <-40 dB (-20 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ac with MX886200A-001 installed): <-44 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002 installed): <-42 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002 installed): <-42 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency Accuracy 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency or or ange: Full packet) Level Setting Range: -120 to 0 dBm (Aux Out Connector) -120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 2.4 GHz/5 GHz) -120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 2.4 GHz/5 GHz) -120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 4.7 GHz/5 GHz) -120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11a: ≤
OFDM (802.11a/g/n): <-40 dB (-20 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ac, with MX886200A-001 installed): <-38 dB (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packet OFDM (802.11ac, 160 MHz bandwidth, with MX886200A-010, 030 installed): <-44 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ax, with MX886200A-002 installed): <-42 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002 installed): <-44 dB (nom). (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom). (-10 dBm ≤ Input level, Average of 20 Packets, Channel Estimate: Full packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) 802.11ax: ± (Setting Range: -120 to 0 dBm (Main 1/2 Connector) -120 to 0 dBm (Main 1/2 Co
EVM (Modulation Accuracy) OFDM (802.11ac, 'with MX886200A-001 installed): <-38 dB (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets OFDM (802.11ac, 160 MHz bandwidth, with MX886200A-001, 030 installed):
OFDM (802.11ac, 160 MHz bandwidth, with MX886200A-001, 030 installed): <-44 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ax, with MX886200A-002, installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom.) (-10 dBm ≤ Input level, Average of 20 Packets, Channel Estimate: Full packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: −20 to +25 dBm Carrier Frequency 802.11b; ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) Ref Signal Generator RF Signal Generator RF Signal Generator OFDM (802.11ac. ≤ -36 dB mms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11a: ≤ -38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤ -37 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤ -37 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C)
 <-44 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets, MCS9) OFDM (802.11ax, with MX886200A-002 installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB
(Modulation Accuracy)
OFDM (802.11ax, with MX886200A-002. Installed): <-42 dB (nom.) (-10 dBm ≤ Input Level, Average of 20 Packets, Channel Estimate: Full Packets) OFDM (802.11ax, with MX886200A-002, 030 installed): <-44 dB (nom.) (-10 dBm ≤ Input level, Average of 20 Packets, Channel Estimate: Full packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency Measurement 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: -120 to 0 dBm (Aux Out Connector) -120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) -120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11a: ≤-38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11a: ≤-38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11a: ≤-38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11a: ≤-37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
OFDM (802.11ax, with MX886200A-002, 030 installed):
 <-44 dB (nom.) (-10 dBm ≤ Input level, Average of 20 Packets, Channel Estimate: Full packet, MCS11) EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: -20 to +25 dBm Carrier Frequency 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency error range: Full packet) Level Setting Range: -120 to 0 dBm (Max Out Connector)
EVM Data Format: % or dB Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: −20 to +25 dBm Carrier Frequency 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
Measurement Resolution: 0.01% or 0.01 dB Measurement Level Range: −20 to +25 dBm Carrier Frequency 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11a: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
Measurement Level Range: −20 to +25 dBm Carrier Frequency Carrier Frequency Measurement 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms (2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11a: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C)
Carrier Frequency Measurement Carrier Frequency Measurement Carrier Frequency Measurement Carrier Frequency 802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets) 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to −5 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
Carrier Frequency Measurement802.11b: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets)802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets)802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet)Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz)EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11n: ≤−40 dB rms (2412 MHz to 2484 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
Measurement 802.11a/g/n/ac: ± (Setting Frequency × Reference Oscillator Accuracy + 1 kHz) (Average of 20 Packets, Channel Estimate: Full Packets) 802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate: Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
802.11ax: ± (Setting Frequency × Reference Oscillator Accuracy + 5 Hz) (nom.) (more than 100 symbol and 242 tones, and Channel Estimate:Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
Estimate:Full Packets, Frequency error range: Full packet) Level Setting Range: −120 to 0 dBm (Aux Out Connector) −120 to 0 dBm (Main 1/2 Connector, Frequency ≤ 6 GHz and Channel Band 2.4 GHz/5 GHz) −120 to −5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤−38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤−40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11n: ≤−40 dB rms (2412 MHz to 2484 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
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-120 to -5 dBm (Main 1/2 Connector, Frequency > 6 GHz or Channel Band 6 GHz) EVM: Packet Length 1472 byte 802.11b: ≤-38 dB rms (2412 MHz to 2484 MHz, Long Preamble, Gaussian Filter BT0.5, 5°C to 45°C) 802.11g (OFDM): ≤-40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤-38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11n: ≤-40 dB rms (2412 MHz to 2484 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤-38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤-37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
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802.11g (OFDM): ≤-40 dB rms(2412 MHz to 2484 MHz, 20°C to 30°C) 802.11a: ≤-38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11n: ≤-40 dB rms (2412 MHz to 2484 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤-38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤-37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
RF Signal Generator 802.11a: ≤−38 dB rms (5180 MHz to 5885 MHz, 20°C to 30°C) 802.11n: ≤−40 dB rms (2412 MHz to 2484 MHz, Long Gl, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤−38 dB rms (5180 MHz to 5885 MHz, Long Gl, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤−37 dB rms (5180 MHz to 5885 MHz, Long Gl, Channel Bandwidth 80 MHz, 20°C to 30°C)
802.11n: ≤-40 dB rms (2412 MHz to 2484 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) ≤-38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤-37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
≤–38 dB rms (5180 MHz to 5885 MHz, Long GI, HT-mixed format, Channel Bandwidth 40 MHz, 20°C to 30°C) 802.11ac: ≤–37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
802.11ac: ≤-37 dB rms (5180 MHz to 5885 MHz, Long GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
802.11ax: ≤–40 dB rms (nom.) (5180 MHz to 5885 MHz, 0.8 μs GI, Channel Bandwidth 80 MHz, 20°C to 30°C)
≤–41 dB rms (nom.) (5180 MHz to 5885 MHz, 0.8 μs Gl, MCS11, Channel Bandwidth 160 MHz, 20°C to 30°C)
≤–41 dB rms (nom.) (5995 MHz to 7115 MHz, 0.8 µs Gl, MCS11, Channel Bandwidth 160 MHz, 20°C to 30°C)
Network Functions
Connection: Network Connection using Messages defined by IEEE802.11
Role: Access Point (AP/STA)
Frame Capture: 1, 2, 4, 8, 16, 32, 64, 128, 256 MB
Tx Test
Measurement Type: Data, ACK
Rx Test
Measurement Type: Packet Error Rate (PER), Frame Reception Rate (FRR)
Payload Type All 0's 0101 1010 PN7 PN9 Random Counting
Functions MIMO signal transmission (with MX886200A-010) – MIMO signals available for receiver testing.
Spatial stream N _{ss} : 1 to 2
Space-time-stream N _{STS} : 1 to 2
RF chain N _{TX} : 2
STBC: Supported only with N _{SS} =1 and N _{STS} =2
Spatial mapping: Direct mapping
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Beamforming: Not supported

Typical (typ.): Performance not warranted. Most products meet typical performance. Nominal (nom.): Values not warranted. Included to facilitate application of product.

Wireless Connectivity Test Set MT8862A Ordering Information

Please specify the model/order number, name and quantity when ordering.

The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name
	Main Frame
MT8862A	Wireless Connectivity Test Set
	Standard Accessories
J0017F	Power Code: 1
	DVD (Operation Manual):
W3901AE	MT8862A Operation Manual (Operation) [DVD]
W3902AE	MT8862A Operation Manual (Remote Control) [DVD]
W3903AE	MX886200A WLAN Measurement Software Manual
	(Operation) [DVD]
W3904AE	MX886200A WLAN Measurement Software Manual
	(Remote Control) [DVD]
	RF Options
MT8862A-001	RF Frequency 2.4 GHz, 5 GHz
MT8862A-002	RF Frequency 6 GHz
MT8862A-010	Extended RF Hardware
	Retrofit RF Options*1
MT8862A-102	RF Frequency 6 GHz Retrofit
MT8862A-202	RF Frequency 6 GHz Retrofit
MT8862A-110	Extended RF Hardware Retrofit
MT8862A-210	Extended RF Hardware Retrofit
MT8862A-310	Extended RF Hardware Retrofit
	Software Options
MX886200A	•
MX886200A-001	WLAN Measurement Software (Requires MT8862A-001) WLAN 802.11ac Option
MX886200A-001	WLAN 802.11ac Option
MX886200A-002	2×2MIMO Measurement Software
MX886200A-010	WLAN Security Function
MX886200A-030	160 MHz Bandwidth
MX886200A-070	Remote Control Expansion
	Options
MT8862A-ES210	2 Years Extended Warranty Service
MT8862A-ES310	3 Years Extended Warranty Service
MT8862A-ES510	5 Years Extended Warranty Service
W10002A 25510	,
101274	Application Parts
J0127A	Coaxial Cord, 1 m (BNC-P, RG-58A/U, BNC-P)
J0127B	Coaxial Cord, 2 m (BNC-P, RG-58A/U, BNC-P)
J0127С J0576В	Coaxial Cord, 0.5 m (BNC-P, RG-58A/U, BNC-P) Coaxial Cord, 1 m (N-P, 5D-2W, N-P)
J0576D	Coaxial Cord, 1 m (N-P, 5D-2W, N-P)
J0376D J0322A	Coaxial Cord, 2.111 (N-P, 3D-2W, N-P) Coaxial Cord, 0.5 m (SMA-P, SMA-P)
J0322B	Coaxial Cord, 1.0 m (SMA-P, SMA-P)
J0322B J0322C	Coaxial Cord, 1.0 III (SMA-P, SMA-P) Coaxial Cord, 1.5 m (SMA-P, SMA-P)
J0322D	Coaxial Cord, 1.5 m (SMA-P, SMA-P)
J0004	Coaxial Adapter (N-P, SMA-J)
J1261A	Ethernet Cable (Straight, 1 m)
J1261B	Ethernet Cable (Straight, 7 m)
J1261C	Ethernet Cable (Cross, 1 m)
J1261D	Ethernet Cable (Cross, 3 m)
J1777A	Expansion IO Cable
B0635A	Rack Mount Kit (EIA)
B0657A	Rack Mount Kit (JIS)
B0636C*2	Carrying Case (Hard type, with a front cover and casters)
B0671A	Front Cover (1MW4U)

- *1: MT8862A- □ ##
 - □: Select from the following according to the option type.
 - 1: Retrofit option (Must be returned to factory in Japan)
 - 2: Retrofit option (Must be returned to service center outside of Japan)
 - 3: Retrofit option (No need to return)
- *2: The Carrying Case B0636C includes a Front Panel Protective Cover (B0671A).



Specifications are subject to change without notice.

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