

MTTplus-900

WiFi Air Expert Module



MTTplus

Modular Test Platform



The MTTplus WiFi Air Expert Module is the most complete and compact tool for WiFi networks discovery, survey, optimization, performance testing and troubleshooting.

Key Features

- Supports detection and connection to 802.11a/b/g/n/ac devices
- Discovers the network and lists Access Points, Clients and Channels in table and graphical format
- AP detailed capabilities discovery including SSID, BSSID, channels, security, supported data rates, signal and noise levels, co-channel and adjacent APs and associated clients
- Survey coverage problems with signal and noise levels tracking
- Analyze Channel usage by utilization and number of APs
- Discover associated and non-associated WiFi Clients present in the network
- Locate rogue APs and clients with directional antenna
- One button Auto-Test evaluates the health of the WiFi network with analysis of security, coverage, interference, top talkers and connectivity with configurable AP list
- Connectivity testing with DHCP connection to APs
- Verify network performance with TCP/UDP throughput testing
- Supports 802.11ac and 802.11n throughput testing
- Optional Ethernet 10/100/1000-T and 1000-X ports to verify end-to-end throughput performance
- Optional directional antenna to locate and track a specific AP or client
- Optional dual band 2.4 GHz and 5 GHz spectrum analyzer to easily discover and identify WiFi and non-WiFi interference
- Optional built-in GPS on the MTTplus mainframe to record the location of the test being performed
- Optional built-in Camera on the MTTplus mainframe with automatic bar/QR code to record tested environment and network devices for future reference

Specifications

General

802.3 Ethernet test ports

- RJ45 10/100/1000Base-T
- SFP 100Base-FX/1000Base-X

Wireless Standards

- 802.11 a, b, g, n, ac

WiFi data rates

- 802.11 a: up to 54 Mbps
- 802.11 b: up to 11 Mbps
- 802.11 g: up to 54 Mbps
- 802.11 n: up to 450 Mbps
 - BPSK, QPSK, 16-QAM, 64-QAM
 - MCS 0-7
 - HT20/40
 - 3x3:3 MIMO
- 802.11 ac: up to 1.3 Gbps
 - BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
 - MCS 0-9
 - VHT20/40/80
 - 3x3:3 MIMO

Operating frequencies

- ISM: 2.400 GHz to 2.4835 GHz
- UNII: 5.170 GHz to 5.825 GHz

MIMO channels

- 3x3:3

WiFi security standards

- WEP
- WPA/WPA2 Personal
- WPA/WPA2 Enterprise
- 802.1X

WiFi Spectrum Analyzer

- Frequency Range: 2.400 to 2.495 GHz and 5.150 to 5.850 GHz
- Amplitude Range: -100 to -6.5 dBm
- Antenna: SMA
- Levels, density, and waterfall view

