Netscout AirCheck™ G2 Wireless Tester

Datasheet

Overview

Wi-Fi is a complex technology, but testing it doesn't have to be. The AirCheck G2 wireless tester allows network professionals to quickly verify and troubleshoot 802.11a/b/g/n/ac networks.

Designed specifically for dispatched troubleshooting, AirCheck G2 simplifies wireless testing by providing:

- Just a few clicks to the answers you need with streamlined, guided troubleshooting
- An instant view to required test results including network availability, connectivity, utilization, security settings, rogue hunting, and interference detection
- A rugged, purpose-built Wi-Fi tester that's easy to use and easy to carry

Its intuitive design makes it simple for anyone to quickly master AirCheck G2. Instant power-up and streamlined tests give answers in seconds so you can close trouble tickets faster – making technicians and users alike more productive. From start to finish, AirCheck G2 helps take the guesswork out of everyday wireless troubleshooting.

AirCheck G2 integrates all Wi-Fi technologies plus interference detection, channel scanning, and connectivity tests. Quickly troubleshoot the most common Wi-Fi pain points, including:

- Coverage problems
- Overloaded networks or channels
- Interference
- Connectivity problems
- Failed access points
- Rogue access points
- Security settings
- Client problems

AirCheck G2 Features

Supports 802.11a/b/g/n/ac – All in one handheld tool.

Start testing fast – Powers up in less than ten seconds and automatically starts discovering networks, access points (APs), and channel activity.

Get answers fast – Intuitive user interface quickly gives you the answers you need in one or two button presses and displays the information on a bright color display.

Identifies security settings for each Network and Access Point: Open, WEP, WPA, WPA2, and/or 802.1x.

Pinpoints Wi-Fi traffic and interference – Shows how much of each channel's bandwidth is consumed by 802.11 traffic and interference, and the APs using each channel.

Finds rogue APs and misbehaving clients – Locate unauthorized APs and clients. Helps you hunt them down with the LOCATE function or find them even faster with the optional directional antenna.

Connection tests – Connects to networks or specific APs using WEP, WPA, WPA2, and/or 802.1x. Acquires an IP address and pings the router, gateway, and user-defined addresses to verify connectivity and network access inside and outside the firewall. Verifies connection quality.

Designed for the field – Five-hour battery life. One-handed operation. Rugged design.

Technical Specifications

Environmental

Operating temperature and relative humidity	32ºF to 113ºF (0ºC to +45ºC) Note: The battery will not charge if the internal temperature of the tester is above 113ºF (45ºC)
Operating relative humidity (% RH without condensation)	90% (50ºF to 95ºF; 10ºC to 35ºC) 75% (95ºF to 113ºF; 35ºC to 45ºC)
Storage temperature	-4ºF to 140ºF (-20ºC to +60ºC)
Shock and vibration	Random, 2 g, 5 Hz-500 Hz (Class 2) 1 m drop test
Safety	EN 61010-1 2nd edition
Altitude	4,000 m; Storage: 12,000 m
EMC	FCC Part 15 Class A, EN 61326-1
Certifications and compliance	Conforms to relevant European Union directives
	Conforms to relevant Australian standards
	Listed by the Canadian Standards Association
	Conforms to FCC Rules, Parts 15.107, 15.109

Wireless

Specification compliance	IEEE 802.11a, 11b, 11g, 11n, 11ac
Operating Frequency	2400-2483.5MHz, 5725-5875MHz
Max Transmit Output Power	802.11a: 17dBm 802.11b: 17dBm 802.11gn: 16 dBm 802.11ac: 13 dBm
Receive Channel Frequencies	**2.4 GHz Band*** 2400-2483.5 MHz (Channel 1 to Channel 14) **5 GHz Band*** 5170-5320 MHz, 5745-5825 MHz (Channels 34, 36, 38, 40, 42, 44, 46, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165)
*Notes: 1. AirCheck G2 receives on all of these frequencies in every country. 2. These are the center frequencies of the channels that AirCheck G2 supports.	
Transmit Channel Frequencies	**2.4 GHz Band**** 802.11b 2400-2483.5 MHz (Channel 1 to Channel 14) 802.11g/n 20 MHz BW 2412-2472 MHz (Channel 1 to Channel 13) 802.11n 40 MHz BW 2422-2462 MHz (All legal bonded channel pair combinations) **5 GHz Band**** 802.11a/n/ac 20 MHz BW 5180-5320 MHz, 5745-5825 MHz 802.11n/ac 40 MHz BW 5190-5310 MHz, ,5755-5795 MHz (All legal bonded channel pair combinations) 802.11ac 80 MHz BW 5210-5290 MHz, 5775 MHz (All legal bonded channel pair combinations)
**Notes: 1. AirCheck G2 transmits only on frequencies allowed in the country for which it is configured. 2. These are the center frequencies of the channels that AirCheck G2 supports.	
Internal Embedded and External unidirectional antenna	Frequency range: 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz; Minimum gain: 5.0 dBi in the 2.4 GHz band and 7.0 dBi in the 5 GHz band Connector: Reverse-polarity SMA plug

LMX9838 Bluetooth Serial Port Module

Specification compliance	Bluetooth 2/0 stack including GAP, SDAP, SPP profiles
Features	High integration: processor, antenna, Crystal, EEPROM, LDO Class 2 Operation FCC, IC, CE and Japan MIC certified Bluetooth SIG QD ID: B012394
Description	The TI LMX9838 Bluetooth Serial Port module is a fully integrated Bluetooth 2.0 baseband controller, 2.4 GHz radio, crystal, antenna, LDO and discreets; combined to form complete small form factor (10mm x 17mm x 2.0mm) Bluetooth node.