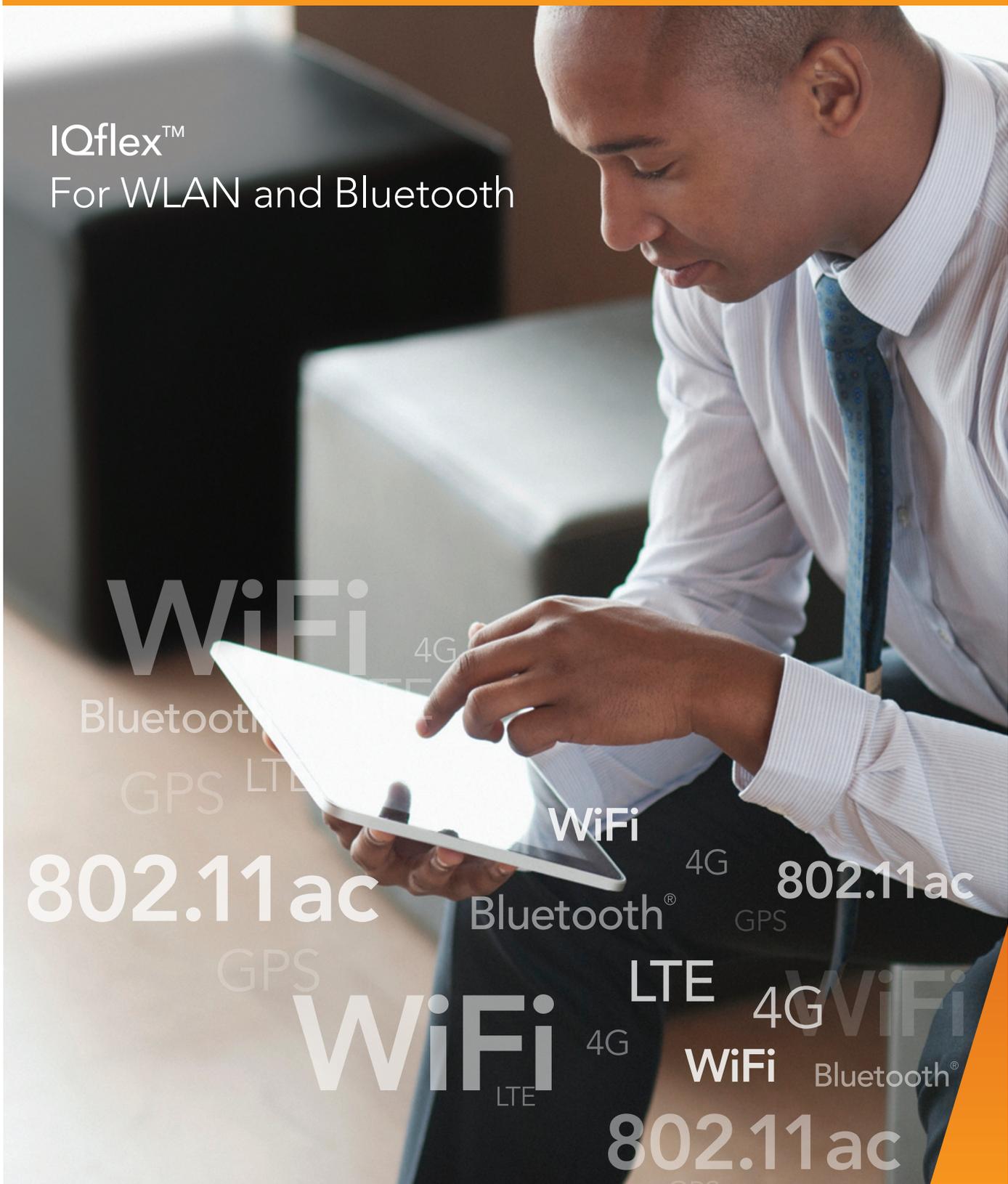


iQflex™ For WLAN and Bluetooth



The LitePoint IQflex™ all-in-one WLAN and Bluetooth test system was developed specifically for RF testing of 802.11a/b/g/n/j WLAN and Bluetooth products. Targeted for manufacturing environments, the IQflex test system integrates a vector signal analyzer (VSA) and a vector signal generator (VSG) into a single instrument.

Functionality

The IQflex test system is expressly designed to test WLAN and Bluetooth products, including network interface cards, access points, and embedded components/modules.

True EVM Measurements

The IQflex test system's VSA capability replaces traditional spectrum analyzers and power meters, enabling the user to analyze a device under test's (DUT) transmitter output and perform true error vector magnitude (EVM) measurements.

Reduced Test Times

Designed to receive large input signals without distortion, the IQflex test system employs a wide-bandwidth Capture-Once-Measure-All approach so that the DUT's transmit signal is sampled and stored in a single measurement for subsequent analysis of all desired parameters resulting in reduced test times.

Consistent Test Performance

The IQflex test system's VSG capability replaces traditional golden units with a test signal source of much higher quality, allowing detailed analysis of the receiver performance of the DUT.

High-quality Testing

The IQflex test system is designed to output high-quality test signals over the full expected operating range of a WLAN or Bluetooth receiver. The IQflex test system supports testing in both the 2.4GHz and 5GHz frequency bands utilized worldwide for 802.11a/b/g/n/j and Bluetooth products. Inputs and outputs for both RF and baseband are provided, enabling detailed testing of all aspects of a WLAN product's analog design.

Key Features

- Seamless analysis of DSSS (802.11b/g), OFDM (802.11a/g/n/j) WLAN and Bluetooth (1.0/2.0/2.1) signals
- Advanced Vector Signal Analyzer (VSA) and Vector Signal Generator (VSG) combined with the capabilities of a power meter and spectrum analyzer in a single instrument
- Options for 2.4 GHz and 5 GHz or 2.4 GHz only
- High-performance VSA
- Wide bandwidth (60MHz)
- Capture-once-measure-all operation
- Graphical and numerical display of measurement results
- High-performance VSG
- Pre-defined 802.11a/b/g/n/j and Bluetooth transmit test signals
- Generation of arbitrary 802.11a/b/g/n/j waveforms simplified by optional IQwave WLAN Waveform software
- Simple control interfaces
- LitePoint API supports Visual C/C++ test scripts for ease of use in manufacturing
- LabVIEW 8.2 and 8.5 libraries for LabVIEW programming

VSA Performance

Parameters	Specifications
Frequency	2400–2500 MHz 4900–6000 MHz
Input Amp Level (max)	2400–2500 MHz: +30 dBm 4900–6000 MHz: +30 dBm

VSG Performance

Parameters	Specifications
Frequency	2400–2500 MHz 4900–6000 MHz
Output Level	2400–2500 MHz: 0 dBm to -95 dBm 4900–6000 MHz: -10 dBm to -95 dBm

System Requirements

IQdebug Monitor and Control Tool

Parameters	Specifications
PC	Intel® Pentium processor or higher
Operating system	Microsoft® Windows 2000; Windows XP Professional; Windows XP, Windows 7 (326/646)
Memory	≥128 MB of RAM
Disk Space	≥200 MB of available hard disk space
Monitor	At least 1024 x 768 resolution
Connectivity	TCP/IP over 10/100BaseT Ethernet

Physical & Environmental

Dimensions	450 mm x 100 mm x 500 mm
Weight	8.2 kg
Power Consumption	300 W max
Operating Temperature	0°C to +55°C (68-2-1, 2, 14)
Guaranteed Specification	+20°C to +30°C ambient
Storage Temperature	-40°C to +70°C (68-2-1, 2, 14)
Operating Humidity	15% to 95% relative humidity, non-condensing (68-2-30)

Order Code

Order Code	Description
0100-0000-002	WLAN A/B/G/N/J 802.11 + Bluetooth
0100-0000-0B2	WLAN B/G 802.11 + Bluetooth (2.4 GHz only)

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