ZT8201 TEST SET

NEW

ZTEC Instruments introduces the industry's only multi-protocol "one-box" wireless test solution with the necessary instantaneous bandwidth to meet next generation wireless test requirements for 160MHz 802.11ac and 100MHz LTE-Advanced. The ZT8201 combines two high performance instruments (6 GHz VSA and 6 GHz VSG) into the industry's smallest and lowest cost multi-protocol test set. Each instrument is two-slots wide and comes in PXI or PXIe. The VSA has 160 MHz of instantaneous bandwidth and the VSG has 500 MHz of modulation bandwidth. The combined ZT8201 delivers an EVM floor of -43dB (0.7%) for 802.11ac/160 MHz. Both instruments have LO IN capabilities if ultra-clean low phase noise measurements are desired. The ZT8201 comes pre-loaded with ZProtocol™ WLAN for 802.11a through ac (up to 160 MHz), a software toolkit that provides standard-compliant protocol analysis, waveform creation and generation.

	Series	Type	RF Input Frequency	RF Input Level Range	Analysis Bandwidth	ADCs	Baseband Inputs	Baseband Frequency	Baseband Input Range	Memory
RECEIVER	ZT8650	Vector Signal Analyzer	250 MHz to 6 GHz	+20 dBm to -120 dBm	160 MHz	Dual 14-bit 400 MS/s	Qty. 2 Differential	DC to 300 MHz	+10 dBm to -20 dBm	128M samples per I/Q channel

	Series	Type	RF Output Frequency	RF Output Level Range	Modulation Bandwidth	DACs	Baseband Outputs	Baseband Frequency	Baseband Output Range	Memory
GENERATOR	ZT8750	Vector Signal Generator	250 MHz to 6 GHz	+20 dBm to -80 dBm	500 MHz	Dual 16-bit 1GS/s	Qty. 2 Differential	DC to 250 MHz	8 Vpp to 80 mVpp	128M samples per I/Q channel

MULTI-PROTOCOL TEST SET

- Software-defined modular PXI/PXIe architecture is expandable to protocol test for WLAN, Cellular, Zigbee, Bluetooth, FM, etc.
- DC to 6 GHz coverage with baseband and RF inputs and outputs

FUTURE-PROOF TECHNICAL SPECIFICATIONS

- 160 MHz VSA instantaneous bandwidth for 802.11ac and LTE-Advanced
- 500 MHz VSG bandwidth for digital predistortion
- EVM floor of 0.7% for 802.11ac/160 MHz

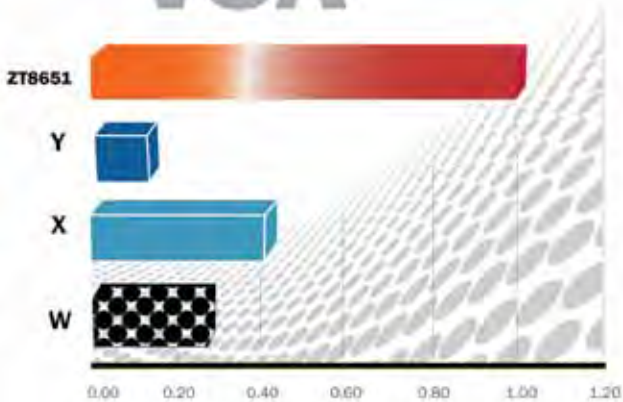## SMALLEST FOOTPRINT AND LOWEST COST

- ZT8201 Test Set includes one protocol software license (ZProtocol™ WLAN)
- Total of 4 PXI or PXIe slots allow other PXI/PXIe instruments or multi-channel MIMO configurations

BETTER INTEGRATION TOOLS AND SUPPORT

- Intuitive analysis and generation software GUIs enable instant-out-of-the-box use
- C/C++, LabVIEW™, and COM software drivers enable ease of automation

■ PXI ■ PXIe

NEW

VECTOR SIGNAL ANALYZER COMPARISON

ZT8651

$$EVM_i \times BWI_i \times PRICE_i = VALUE\ INDEX$$
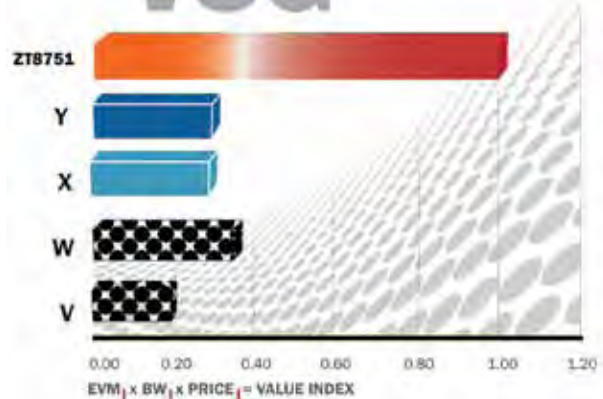
$$EVM_i = \frac{EVM\ ZTEC}{EVM\ OTHER} \qquad BWI_i = \frac{INST\ BW\ ZTEC}{INST\ BW\ OTHER} \qquad PRICE_i = \frac{PRICE\ ZTEC}{PRICE\ OTHER}$$

The ZT8650 Vector Signal Analyzer provides spectrum and signal analysis from DC to 6 GHz. Differential I and Q inputs enable the VSA to be used for baseband testing with the same signal analysis functionality as the RF input. The RF and baseband input signals can be captured with up to 160 MHz of instantaneous bandwidth.

The ZT8750 Vector Signal Generator provides continuous and modulated signal generation from DC to 6 GHz. Differential I and Q outputs enable the VSG to generate baseband signals in parallel to the modulated RF output. RF and baseband output signals can be generated with up to 500 MHz of modulation bandwidth.

VECTOR SIGNAL GENERATOR COMPARISON

ZT8751

$$EVM_i \times BW_i \times PRICE_i = VALUE\ INDEX$$

$$EVM_i = \frac{EVM\ ZTEC}{EVM\ OTHER} \qquad BW = \frac{MOD\ BW\ ZTEC}{MOD\ BW\ OTHER} \qquad PRICE_i = \frac{PRICE\ ZTEC}{PRICE\ OTHER}$$

ZProtocol

- ZProtocol™ WLAN provides waveform creation and protocol analysis capability for 802.11 a through ac/160 MHz

- ZProtocol™ WLAN includes an intuitive user interface for the ZT8201 Test Set.

- Operates in simulation mode - view, search, and analyze saved data

- C/C++, LabVIEW™, and COM software drivers enable ease of automation.

- Example code demonstrates the automated use case and allows users to begin characterization or design verification with little additional programming or integration.

- ZProtocol™ WLAN can be applied as an 802.11a through ac analysis and waveform creation tool for third-party VSA and VSG instruments having the required modulation bandwidths.

■ **PXI** ■ **PXIe**