

ZT8450 I/Q Digitizer

Bench-top baseband vector signal analyzer in a modular instrument



NEW!

Key Specifications

Platforms:
PXI, PXIe, LXI, VXI, PCI

Frequency Range:
DC to 300MHz

Instantaneous
IF Bandwidth:
100 Hz to 160 MHz

Real-Time Signal
Processing:
**FPGA-based digital down
conversion (DDC) with
fractional resampling**

Alias-Free Sample Rate:
100 S/s to 400 MS/s

ADC:
Dual 400 MS/s 14-bit

Spurious-Free
Dynamic Range:
> 80 dBc

Inputs:
2 or 4 Differential

Memory:
512 MiB
(up to 128
MiSamples of complex
I/Q data pairs)

Input Ranges:
**+ 10 dBm, 0 dBm,
-10 dBm, -20 dBm**



Optimized for I/Q Demodulator RFIC Testing

- Baseband Vector Signal Analyzer & Spectrum Analyzer functionality
- Differential and single-ended inputs supported
- Complex (I/Q), real (I or Q) and simultaneous (I and Q) input signal processing configurations
- Four I/Q input ranges with up to 30 dB gain
- Supports OFDM (Orthogonal Frequency-Division Multiplexing) waveforms including 802.11a/n/ac, WiMAX and LTE

Future-Proof Technical Specifications

- Highest instantaneous IF bandwidth
- Lowest noise floor and highest dynamic range
- Fast switching and all-digital frequency hopping
- Real-time highly flexible FPGA processing

Highest Channel Density and Smallest Footprint

- Two (ZT8451) or four (ZT8452) differential input channels
- PXIe, PXI, VXI, LXI and PCI platforms

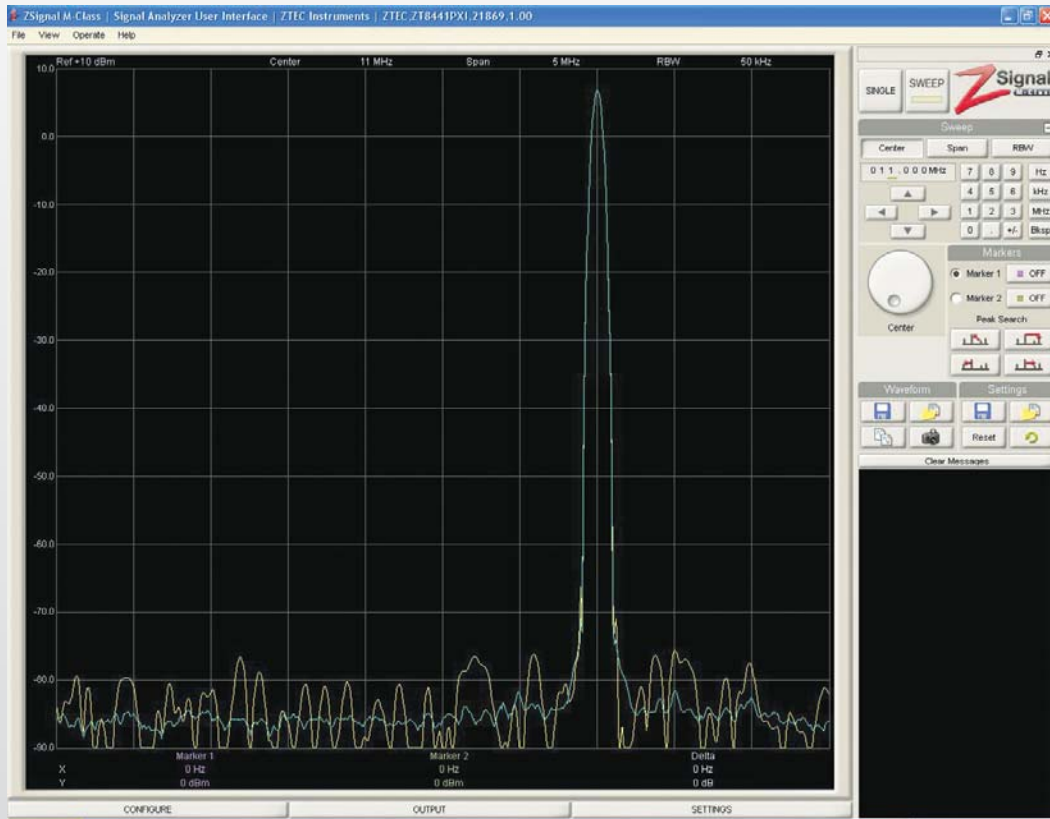
Better Integration Tools and Support

- Full-featured ZSignal Spectrum Analyzer GUI included
- Comprehensive and intuitive software drivers
- Windows™ and Linux development environments
- On-instrument processing simplifies and shortens integration



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Full Featured Spectrum Analyzer Included

- Instantaneous spans from 100Hz to 160 MHz
- Up to 8 simultaneous traces
- 2 markers with full peak search capability
- Fully adjustable resolution bandwidth from 1Hz to 3MHz
- Fast trace averaging
- Access to I/Q source data



Ordering Information
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