

ZT8441 RF/IF Digitizer

Bench-top signal and spectrum analysis in a modular instrument



NEW!

Key Specifications

Platforms:
PCI, PXI, LXI, VXI

Frequency Range:
DC to 1GHz

Instantaneous
IF Bandwidth:
100 Hz to 156.25 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:
RF or Dual I/Q

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

Signal Range:
+ 10 dBm MAX



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

True Modular Architecture for Synthetic Instrumentation

- Reconfigurable functionality for various applications
- Interoperable with 3rd party RF PXI instruments

Highest Channel Density and Smallest Footprint

- Two-input channels and RF/IF or I/Q configuration
- Single-wide 3U PXI

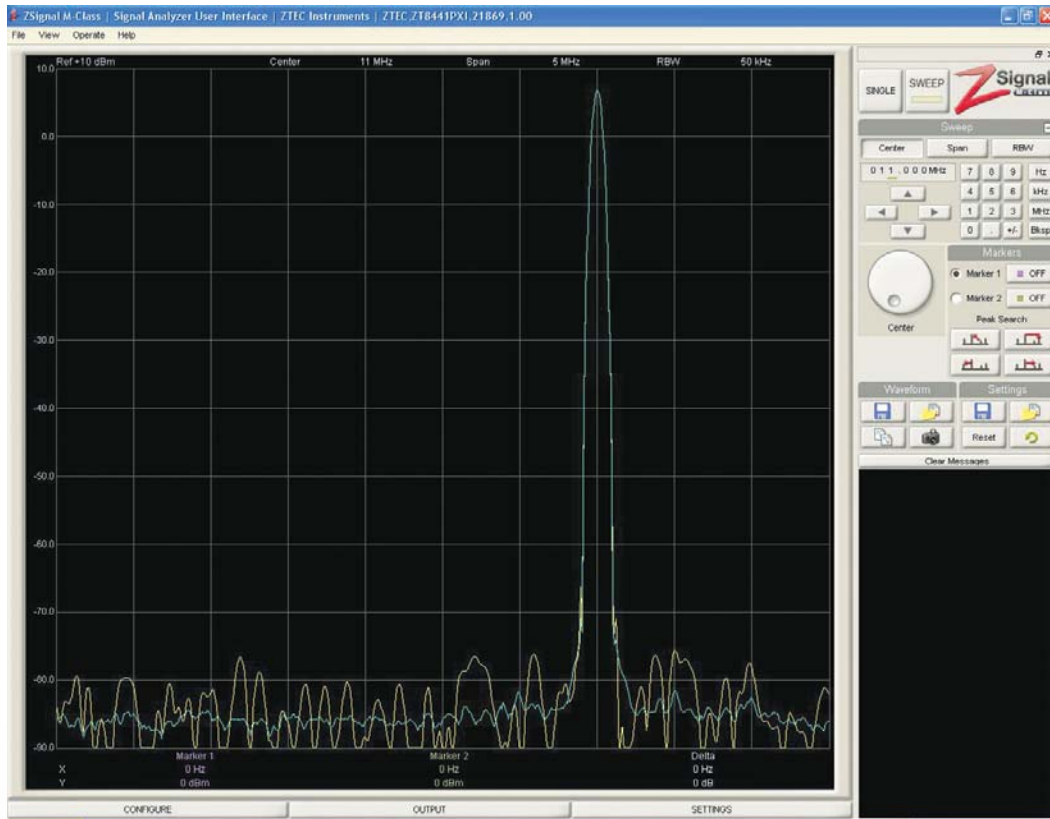
Better Integration Tools and Support

- 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 156.25MHz
- 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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