

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E1430A

The Keysight (Agilent) E1430A is a high-resolution, single-slot, C-size VXI digitizer module designed for high-performance spectrum analysis, transient capture, and waveform recording. It operates at sampling rates up to 20 MSa/s with a raw resolution of 23 bits, featuring onboard DSP-based real-time digital filtering and high-speed memory.

SPECIFICATIONS

General

Interfaces	VXI, Local Bus
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Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	30.5 mm × 233.4 mm × 340.0 mm (VXI C-size, 1-slot) mm

Analog Input Characteristics

Number of Input Channels	1
Input Impedance	50 ohms
Full-Scale Input Ranges	+28 dBm to -32 dBm (in 6 dB steps)
Anti-Aliasing Filter	Built-in anti-alias filters and signal conditioning

Analog-to-Digital Conversion (ADC)

ADC Resolution	12 bits
Analog-to-Digital Conversion Type	Two-pass (sub-ranging)
Maximum Sampling Rate	20 MSa/s

Onboard Memory & DSP

Memory Configuration	FIFO (for continuous digitizing during block-mode transfers)
DSP Filtering	Multistage real-time digital filtering with digital LO
Maximum Information Bandwidth	8 MHz

Bus & System Interface

VXI Device Class	Register-based
Maximum Continuous Transfer Rate	40 Mbytes/sec (via high-speed Local Bus)

Physical & Environmental

Module Form Factor	C-size VXI
Number of Slots Occupied	1

Analog Input

Input Coupling	AC, DC
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Physical & Connectivity

Front Panel Connectors	SMB
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Triggering

Trigger Sources	Immediate, External, Software, VXI TTLTRG, Analog Level
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Data Output

Output Data Formats	16-bit integer, 32-bit integer, 32-bit floating point
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TECHNOLOGY

VXI Digitizer

APPLICATIONS

Spectrum analysis, transient capture, IF digitization, and waveform recording

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.