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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1439C

Keysight E1439C 95 MSa/s VXI Digitizer with DSP and Memory The Keysight E1439C is a single-slot C-size VXI digitizer with 12-bit 95 MSa/s conversion, baseband and 70 MHz IF inputs, anti-alias filtering, tunable digital decimation, and large FIFO memory for RF communications and ATE capture. RF IF digitization from VHF/UHF/microwave tuners, high dynamic range time and frequency domain capture, and multi-module coherent acquisition in VXI systems. Baseband and 70 MHz IF input paths with 36 MHz alias protected bandwidth The Keysight E1439C is a single-slot C-size VXI digitizer with 12-bit 95 MSa/s conversion, baseband and 70 MHz IF inputs, anti-alias filtering, tunable digital decimation, and large FIFO memory for RF communications and ATE capture. RF IF digitization from VHF/UHF/microwave tuners, high dynamic range time and frequency domain capture, and multi-module coherent acquisition in VXI systems. Baseband and 70 MHz IF input paths with 36 MHz alias protected bandwidth Minus 90 dBfs residual spurious free dynamic range class



MODEL

**Agilent / Keysight
E1439C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1439C

LISTING

<https://aumictechlabs.com/products/e1439c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1439C is a single-channel, C-size VXI digitizer module engineered for high-precision baseband and IF signal acquisition in RF communication and automated test equipment systems. Operating at 95 MSa/s with 12-bit resolution, it simultaneously captures baseband signals (DC–36 MHz) and 70 MHz IF signals, each with 36 MHz bandwidth and alias protection.

The module delivers -90 dBfs spurious-free dynamic range, -132 dBfs/Hz noise density, and distortion performance below -62 dBc at full scale. Signal conditioning includes a programmable 36 MHz anti-alias filter and 17 digital decimation filters with 0.023 MHz tuning resolution and digitally tunable local oscillator. Memory architecture employs a FIFO buffer available in 144 MB, 288 MB, or 1.2 GB configurations, enabling continuous signal capture for up to 8 seconds at full sampling rate or 12 minutes with 1 MHz decimation. The E1439D variant extends capabilities with a 2.5 Gbit/sec optical front panel data port supporting 190 MB/sec continuous transfer and VXI local bus data paths to 50 MB/sec. Both variants integrate into VXI systems via VXIplug&play compatibility and support multiple trigger modes including immediate, level, external, and software sources.

Technical Specifications
Sampling Rate: 95 MSa/s
Resolution: 12 bits
Baseband Input: 0–36 MHz, -21 dBm (28.2 mVp)
70 MHz IF Input: 36 MHz bandwidth, -36 dBm to +12 dBm (1 dB steps; 5.02 mVp to 1.26 Vp)
Maximum Input Power: +24 dBm
Input Impedance: 50 Ω
Spurious-Free Dynamic Range: -90 dBfs
Noise Density: -132 dBfs/Hz
Full-Scale Distortion: 15 dB return loss (baseband)
Immediate, level, external, and software triggering

Typical Applications
RF communication receiver characterization
Automated test equipment for transceiver validation
Multi-signal capture and analysis
Long-duration IF signal recording with decimation

Compatibility & Integration
VXIbus architecture with VXIplug&play compliance. Single-slot, C-size form factor. Internal 95 MHz clock with external 10 MHz reference support.

E1439C Characteristics / Specifications

PARAMETER	VALUE
Model	E1439C
Instrument Type	VXI digitizer with DSP and memory
Card Format	C size single slot VXI
Channel Count	1
ADC Resolution	12 bits
Sample Rate	95 MSa/s
Input Impedance	50 ohm
Baseband Bandwidth Alias Filter In	36 MHz
Bandwidth Alias Filter Out	95 MHz
IF Input Center	70 MHz
IF Bandwidth	36 MHz
Input Range IF Path	-36 dBm to +12 dBm in 1 dB steps
Residual Spurious	-90 dBfs
Distortion Products	less than -62 dBc or -90 dBfs whichever greater
Noise Density Class	-132 dBfs/Hz
Absolute Accuracy IF Input	plus or minus 1.5 dB
Absolute Accuracy Baseband Input	plus or minus 0.7 dB
Internal Clock	95 MHz
External Reference	10 MHz
Digital Decimation Filters	17 octave steps
FIFO Memory Standard	144 MB
FIFO Memory Options	288 MB or 1.2 GB
Local Bus Fiber Port	not supported on E1439C
Device Type	register based VXI
Bandwidth	Alias Filter In: 36 MHz

E1439C Specifications

PARAMETER	VALUE
Key Features	95 MSa/s 12 bit ADC with DSP filtering
Minus 90 dBfs residual spurious free dynamic range class	144 MB FIFO expandable to 1.2 GB
Technical Specifications	Model: E1439C
Notes	Numeric rows from Agilent E1439C/D 95 MSa/s Digitizer datasheet summary. E1439D adds optical FPDP and local bus.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	E1439C
Instrument Type	VXI digitizer with DSP and memory
Card Format	C size single slot VXI
Channel Count	1
ADC Resolution	12 bits
Sample Rate	95 MSa/s
Input Impedance	50 ohm
Baseband Bandwidth Alias Filter In	36 MHz
Bandwidth Alias Filter Out	95 MHz
IF Input Center	70 MHz
IF Bandwidth	36 MHz
Input Range IF Path	-36 dBm to +12 dBm in 1 dB steps
Residual Spurious	-90 dBfs
Distortion Products	less than -62 dBc or -90 dBfs whichever greater
Noise Density Class	-132 dBfs/Hz
Absolute Accuracy IF Input	plus or minus 1.5 dB
Absolute Accuracy Baseband Input	plus or minus 0.7 dB
Internal Clock	95 MHz
External Reference	10 MHz
Digital Decimation Filters	17 octave steps
FIFO Memory Standard	144 MB
FIFO Memory Options	288 MB or 1.2 GB
Local Bus Fiber Port	not supported on E1439C
Device Type	register based VXI

Notes

Numeric rows from Agilent E1439C/D 95 MSa/s Digitizer datasheet summary. E1439D adds optical FPDP and local bus.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.