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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1419A

Keysight E1419A Multifunction Plus Measurement and Control Module The Keysight VT1419A Multifunction Plus isaC-size VXI scanning A/D and control module with autoranging gains and SCP-based signal conditioning for mixed-sensor acquisition per VXI Technology VT1415A/VT1419A family specifications. Mixed-signal electronic and mechanical assembly test, multi-sensor scanning, and algorithmic control with shared SCP ecosystem. Instrument Type: Multifunction Plus measurement and control module



MODEL

**Agilent / Keysight
E1419A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1419A

LISTING

<https://aumictechlabs.com/products/e1419a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1419A is a C-size, 1-slot VXI multifunction measurement and control module engineered for mixed-sensor and mixed-signal applications in design verification and test automation. Built around a 40 MHz pipelined DSP, the module delivers deterministic real-time execution with on-board Engineering Unit conversion, scalable configuration, and intelligent decision-making capabilities. Its modular architecture accepts up to eight Signal Conditioning Plug-ons (SCPs), enabling flexible analog and digital I/O without additional VXI carriers - reducing system complexity and improving measurement repeatability. Technical Specifications Form Factor: C-size, 1-slot, register-based VXI module Processor: 40 MHz pipelined DSP Memory: 64 kSa buffer; 500-element current value table Data Transfer: 64,000-sample FIFO buffer for block transfers Programming: Subset of C language (IF-ELSE, math, and comparison operations) SCP

Capacity: Up to eight Signal Conditioning Plug-ons (positions 1–4 support non-programmable analog input SCPs)Key Features Analog measurements: voltage, current, resistance, temperature (thermocouples, thermistors, RTDs), strain, frequency, event count, toothed-wheel velocity Digital I/O: discrete levels, TTL, contact closures, 8-bit/16-bit outputs Pulse generation: programmable PWM with free-run, square-wave, and pulse-per-update modes Integrated bridge excitation and completion for strain applications Stepper motor control via dedicated SCPs On-board Engineering Unit conversion eliminates external conditioning carriers Breadboard SCP option (E1504A) for custom circuit integrationTypical Applications Electromechanical component and assembly design verification; mixed-signal test automation; condition monitoring; real-time control in laboratory and production environments.Compatibility & Integration Shipped standard with four E1501A Direct Input SCPs (8-channel each). Instrument drivers support LabVIEW and HP VEE programming environments. Register-based architecture enables deterministic timing for synchronized multi-channel operations.

E1419A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Multifunction Plus measurement and control module
Module Size	C
Full Scale Range Basic ScanningAD	plus or minus 16 V
Autoranging Gains	x1 ×4 ×16 ×64 ×256
Scan Trigger Internal Range Family	100 us to 6.5536 s
Scan Trigger Resolution Family	100 us
Trigger Count Family	1 to 65535 or infinite
Scan Trigger Latency Typical Family	17.5 us
Sample Timer Resolution Family	0.5 us
Maximum Scp Slots Family	8
Maximum Bridge Scps Family	4
Maximum Bridge Channels Family	16
Scp Channel Block Size	8 channels per input SCP
Voltage Output Channels Per Scp	8
Current Output Channels Per Scp	8
Digital Io Scp Width	16 bit class VT1533A
Frequency Totalize Pwm Channels Per Scp	8
Direct Input Scp	8 channel
Programmable Filter Gain Scp	8 channel
Strain Completion Options	120 ohm and 350 ohm 8 channel SCPs
Accuracy Statement	single sample; averaging reduces noise
Input Protection	provided by SCP
Wiring Recommendation	shielded twisted pair
Platform	VXI C-size
Related Controllers	VT1415A VT1422A family

PARAMETER	VALUE
Programming	SCPI and algorithm language

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.	
Applications	
Mixed-signal electronic and mechanical assembly test, multi-sensor scanning, and algorithmic control with shared SCP ecosystem.	
Key Features	
ScanningADwith autoranging gains	
Multifunction Plus measurement set	
SCP based signal conditioning	
Algorithm language support	
VXI C-size single slot class	
Technical Specifications	
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Notes

Numeric rows from VXI Technology VT1415A/VT1422A/VT1419A family specification pages for the scanning A/D and timing section that explicitly lists VT1419A full-scale and gain values.

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.