

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1313A 32-Channel Scanning A/D Converter

Agilent E1313A High Speed Scanning A/D Converter The HP/Agilent E1313A isaB-size high-speed scanning A/D converter in the E1313/E1413 family. OEM materials list up to 64 channels, scan rates to 100000 channels/s, a 65024-reading FIFO, Current Value Table access, IEEE 754 32-bit floating point readings, four scan lists of up to 1024 assignments each, and up to eight Signal Conditioning Plug-on (SCP) modules. High-speed multi-channel data acquisition, engineering-unit scanning, and SCP-conditioned sensor measurements in VXI systems. The HP/Agilent E1313A isaB-size high-speed scanning A/D converter in the E1313/E1413 family. OEM materials list up to 64 channels, scan rates to 100000 channels/s, a 65024-reading FIFO, Current Value Table access, IEEE 754 32-bit floating point readings, four scan lists of up to 1024 assignments each, and up to eight Signal Conditioning Plug-on (SCP) modules. High-speed multi-channel data acquisition, engineering-unit scanning, and SCP-conditioned sensor measurements in VXI systems. Up to eight SCP signal conditioning plug ons



MODEL

**Agilent / Keysight
E1313A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1313A

LISTING

<https://aumictechlabs.com/products/e1313a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1313A is a B-size VXI module delivering 32-channel differential scanning analog-to-digital conversion for data acquisition and computer-aided test applications. With 16-bit

resolution, 0.01% accuracy, and a 100 kSamples/s maximum reading rate, this register-based module integrates a 32-channel FET multiplexer and 64 kSa dual-ported FIFO buffer for efficient block transfers. Option 001 expansion adds a second identical module for 64-channel operation. The E1313A accepts 4 mV to 16 V full-scale input and supports optional Signal Conditioning Plug-ons (SCPs) for buffering, filtering, amplification, and specialized measurements including strain gauge and temperature conditioning. Automatic self-calibration and VXIbus integration make this module suitable for demanding multichannel acquisition tasks. The Keysight E1413C offers functionally identical 64-channel performance in a single C-size slot as an alternative platform.

Technical Specifications

Module Type:	B-size, 3-slot VXIbus register-based
Channels:	32 differential scanning (expandable to 64 with Option 001)
A/D Resolution:	16-bit including sign
Conversion Speed:	100 kHz, 100 kSamples/s maximum (divided by active channel count)
Accuracy:	0.01% of reading
Input Range:	4 mV to 16 V full-scale
Memory:	64 kSa dual-ported FIFO plus current value buffer
Multiplexer:	32-channel differential FET
Dimensions:	12 × 10 × 8 in
Weight:	Approximately 10 lbs

Key Features

- High-density 32-channel architecture with field-expandable design
- Integrated dual-ported FIFO for efficient data streaming
- Automatic self-calibration for drift compensation
- Optional Signal Conditioning Plug-ons for DC, temperature, resistance, and strain measurements
- Register-based VXIbus control via standard command interface

Typical Applications

- Computer-aided testing (CAT) and high-speed data logging
- Multichannel voltage acquisition and monitoring
- Temperature and resistance measurement systems
- Strain gauge analysis with bridge excitation

Compatibility & Integration

Designed for VXIbus systems. Keysight E1413C provides functionally equivalent 64-channel, single-slot C-size alternative. Instrument drivers available from Keysight.

E1313A Characteristics / Specifications

PARAMETER	VALUE
Maximum Channels	64
Maximum Scan Rate	100000 channels/s
FIFO Depth	65024 readings
Current Value Table	latest reading per channel
Reading Format	IEEE 754 32 bit floating point
Engineering Units Conversion	supported
Scan Lists	4 lists
Channels Per Scan List	up to 1024 assignments
List Of Lists References	up to 1024 references per scan list
SCP Slots	8
Module Size	B
Slots Occupied	1
VXI Device Type	register based scanning ADC
Programming	SCPI and Compiled SCPI
Onboard Calibration Sources	yes
Wiring Offset Compensation	yes
Product Family	E1313/E1413
Example SCP Models	E1501A through E1518A and E1531A through E1538A families
Operating Temperature Class	0 to 55 C
Connectors	P1/P2 on C-size; P1 on B-size
Triggering	scan list and software ARM/trigger registers
Data Path	FIFO stream plus CVT random access
Form Factor Note	E1413C is C-size; E1313A is B-size family member
Operating temperature	Class: 0 to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
Operating Temperature	Class: 0 to 55 C
Operating Temperature Class	0 to 55 C
Connectors	P1/P2 on C-size; P1 on B-size
Triggering	scan list and software ARM/trigger registers
Data Path	FIFO stream plus CVT random access
Form Factor Note	E1413C is C-size; E1313A is B-size family member Notes Channel count, rate, FIFO, CVT, scan-list, and SCP details from Agilent/Artisan E1413C descriptions and shared E1313A/E1413C high-speed A/D user manual. Confirm installed SCP mix and calibration.

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
Maximum Channels	64
Maximum Scan Rate	100000 channels/s
FIFO Depth	65024 readings
Current Value Table	latest reading per channel
Reading Format	IEEE 754 32 bit floating point
Engineering Units Conversion	supported
Scan Lists	4 lists
Channels Per Scan List	up to 1024 assignments
List Of Lists References	up to 1024 references per scan list
SCP Slots	8
Module Size	B
Slots Occupied	1
VXI Device Type	register based scanning ADC
Programming	SCPI and Compiled SCPI
Onboard Calibration Sources	yes
Wiring Offset Compensation	yes
Product Family	E1313/E1413
Example SCP Models	E1501A through E1518A and E1531A through E1538A families
Operating Temperature Class	0 to 55 C
Connectors	P1/P2 on C-size; P1 on B-size
Triggering	scan list and software ARM/trigger registers
Data Path	FIFO stream plus CVT random access
Form Factor Note	E1413C is C-size; E1313A is B-size family member
Notes	
Channel count, rate, FIFO, CVT, scan-list, and SCP details from Agilent/Artisan E1413C descriptions and shared E1313A/E1413C high-speed A/D user manual. Confirm installed SCP mix and calibration.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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