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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2352A

Agilent Keysight U2352A USB Modular Multifunction DAQ The Agilent/Keysight U2352A matches the U2351A 16-channel 16-bit 250 kSa/s analog-input architecture without analog outputs. OEM U2300 Series ordering identifies it as the 16-channel 250 kSa/s multifunction DAQ without AO, retaining 24-bit DIO, counters, and USB modular chassis compatibility. Analog input logging where AO is not required, educational DAQ labs, and synchronized multi-module systems in the U2781A chassis. Analog Input Resolution: 16 bits no missing codes The Agilent/Keysight U2352A matches the U2351A 16-channel 16-bit 250 kSa/s analog-input architecture without analog outputs. OEM U2300 Series ordering identifies it as the 16-channel 250 kSa/s multifunction DAQ without AO, retaining 24-bit DIO, counters, and USB modular chassis compatibility. Analog input logging where AO is not required, educational DAQ labs, and synchronized multi-module systems in the U2781A chassis. Analog Input Resolution: 16 bits no missing codes Bipolar Input Ranges: plus or minus 10 V 5 V 2.5 V 1.25 V



MODEL Agilent / Keysight U2352A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU U2352A	LISTING https://aumictechlabs.com/products/u2352a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U2352A is a USB modular data acquisition device that delivers 16-bit precision analog measurements and digital control in a compact, portable form factor. Operating over USB 2.0 with USBTMC-USB488 compliance, it functions as a standalone unit or integrates into a U2781A chassis for synchronized multi-module systems. The device combines analog input,

digital I/O, and counter channels into a single platform suitable for laboratory benches and field deployments.

Technical Specifications

Analog Input 16 single-ended or 8 differential multiplexed channels 16-bit resolution 250 kSa/s maximum sampling rate Accuracy: $\pm 0.02\%$ of reading + ± 1.0 mV (10 V range, unipolar) Input impedance (external trigger): 20 k Ω Overvoltage protection: continuous to ± 35 V DC coupling Configurable gain, unipolar/bipolar, single-ended/differential via 512-location channel gain list

Digital I/O & Counters 24-bit programmable TTL input/output channels 2 general-purpose 31-bit independent counters

Triggering External digital trigger input (TTL/CMOS, rising or falling edge selectable) External analog trigger input with 8-bit level resolution Trigger conditions: above high, below low, window Slave and SSI/Star trigger recommended with U2781A chassis

Sampling Modes Burst mode for simulated simultaneous acquisition Continuous mode with basic oscilloscope-like triggering

Key Features Closed-loop control capability via digital I/O to switches, relays, and solenoids Optional U2901A or U2902A terminal blocks for simplified connections

Operating temperature range: 0–55 °C

Typical Applications Multi-channel data logging and precision measurement Real-time signal acquisition with software triggering Automated test and control systems with digital feedback

Compatibility & Integration Included software licenses cover Keysight BenchVue and Modular Instruments Measurement Manager. Supported development environments: Keysight VEE, MATLAB R2007a, NI LabVIEW, and Microsoft Visual Studio. Compatible with Microsoft Windows operating systems.

U2352A Characteristics / Specifications

PARAMETER	VALUE
Analog Input Resolution	16 bits no missing codes
Analog Input Channels	16 SE / 8 DI
Maximum Sampling Rate	250 kSa/s
Analog Output Channels	0
Bipolar Input Ranges	plus or minus 10 V 5 V 2.5 V 1.25 V
Unipolar Input Ranges	0 to 10 V 5 V 2.5 V 1.25 V
Input Impedance	1 GOhm / 100 pF
Overvoltage Protection Power On	continuous plus or minus 30 V
Digital I/O Bits	24 bit programmable
Counter Channels	2 independent up down
Counter Base Clock	48 MHz
FIFO Buffer Analog Input	up to 8 MSa
Scan List Memory	up to 100 channel entries
Module Dimension With Case WxDxH	120.00 × 182.40 × 44.00 mm
Weight With Case	565 g
Remote Interface	Hi Speed USB 2.0
Device Class	USBTMC USB488
Operating Temperature	0 C to 55 C
Power Requirement	plus 12 VDC 2 A max input rated
IO Connector	68 pin female VHDCI
Relative Humidity Operating	15 to 85 percent noncondensing
Altitude Maximum	2000 m
Calibration Warmup Recommended	20 minutes
Onboard Reference	5 V
Humidity	Operating: 15 to 85 percent noncondensing

U2352A Specifications

PARAMETER	VALUE
Agilent Keysight U2352A USB Modular Multifunction DAQ	Overview
Applications	Analog input logging where AO is not required, educational DAQ labs, and synchronized multi-module systems in the U2781A chassis.
Key Features	16 bit 250 kSa/s analog inputs
No analog outputs	24 bit programmable DIO
Technical Specifications	Analog Input Resolution: 16 bits no missing codes
Notes	From Keysight U2300A Series data sheet model table for U2352A (16-channel 250 kSa/s without analog output).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C
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Humidity	Operating: 15 to 85 percent noncondensing
Power Requirement	plus 12 VDC 2 A max input rated
IO Connector	68 pin female VHDCI
Relative Humidity Operating	15 to 85 percent noncondensing
Altitude Maximum	2000 m
Calibration Warmup Recommended	20 minutes
Onboard Reference	5 V Notes From Keysight U2300A Series data sheet model table for U2352A (16-channel 250 kSa/s without analog output).

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	
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Maximum Sampling Rate	250 kSa/s
Analog Output Channels	0
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From Keysight U2300A Series data sheet model table for U2352A (16-channel 250 kSa/s without analog output).	

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.