


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2351A

Agilent Keysight U2351A USB Modular Multifunction DAQ The Agilent/Keysight U2351A is a basic multifunction USB DAQ with 16 single-ended / 8 differential 16-bit analog inputs at up to 250 kSa/s, two 16-bit analog outputs at 1 MSa/s, 24-bit digital I/O, and two counters. OEM U2300 Series tables list bipolar ranges to plus or minus 10 V, unipolar to 10 V, Hi-Speed USB 2.0, and optional U2781A chassis synchronization. General-purpose laboratory data acquisition, mixed-signal logging, and modular multi-device systems in the U2781A chassis. The Agilent/Keysight U2351A is a basic multifunction USB DAQ with 16 single-ended / 8 differential 16-bit analog inputs at up to 250 kSa/s, two 16-bit analog outputs at 1 MSa/s, 24-bit digital I/O, and two counters. OEM U2300 Series tables list bipolar ranges to plus or minus 10 V, unipolar to 10 V, Hi-Speed USB 2.0, and optional U2781A chassis synchronization. General-purpose laboratory data acquisition, mixed-signal logging, and modular multi-device systems in the U2781A chassis. Two analog outputs with function generation



MODEL

**Agilent / Keysight
U2351A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U2351A

LISTING

<https://aumictechlabs.com/products/u2351a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U2351A is a USB-based multifunction data acquisition device that combines analog input and output, digital I/O, and counter functions in a single module. It connects via high-speed USB 2.0 and operates as a standalone unit or integrates into the U2781A chassis for expanded capabilities. The device supports data logging, monitoring, design validation, and manufacturing

test applications across Windows platforms. Technical Specifications Analog Inputs 16-bit resolution 16 single-ended or 8 differential multiplexed channels Sampling rate up to 250 kSa/s Analog Outputs 2 channels 16-bit resolution Update rate up to 1 MSa/s Digital I/O 24-bit programmable TTL input/output channels Counters 2 general-purpose digital counter channels Connectivity USB 2.0 interface with USBTMC-USB488 standard compliance Key Features Standalone and modular operation - use independently or integrated into U2781A chassis Multifunction operation as digital multimeter in polling mode or basic oscilloscope with continuous mode and simple triggering Closed-loop control via digital I/O for switches, relays, and solenoids Burst mode for simulating simultaneous analog input acquisition Self-calibration to readjust offset within specified accuracies and ranges Typical Applications Data logging and monitoring, design validation, manufacturing test, and closed-loop control systems requiring mixed-signal measurement and automation. Compatibility & Integration Windows operating systems. Compatible with Keysight VEE, MATLAB (R2007a and later), NI LabVIEW, and Microsoft Visual Studio. Includes BenchVue software license (BV0025B). Optional terminal blocks (U2901A or U2902A) available for simplified connections.

U2351A 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 Resolution	16 bits
Analog Output Channels	2
Analog Output Update Rate	1 MSa/s
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
Counter Input Frequency	0.1 Hz to 6 MHz at 50 percent duty
FIFO Buffer Analog Input	up to 8 MSa
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
Analog Output Function Modes	sine square triangle sawtooth noise
Scan List Memory	up to 100 channel entries
Trigger Modes AI	pre delay post middle

U2351A Specifications

PARAMETER	VALUE
Agilent Keysight U2351A USB Modular Multifunction DAQ	Overview
Applications	General-purpose laboratory data acquisition, mixed-signal logging, and modular multi-device systems in the U2781A chassis.
Key Features	16 bit analog inputs
Two analog outputs with function generation	24 bit programmable DIO
Standalone or chassis modular use	Hi Speed USB 2.0 USBTMC
Technical Specifications	Analog Input Resolution: 16 bits no missing codes
Notes	From Keysight U2300A Series USB Modular Multifunction Data Acquisition Devices data sheet for U2351A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C
Operating Temperature	0 C to 55 C
Power Requirement	plus 12 VDC 2 A max input rated
Analog Output Function Modes	sine square triangle sawtooth noise
Scan List Memory	up to 100 channel entries
Trigger Modes AI	pre delay post middle Notes From Keysight U2300A Series USB Modular Multifunction Data Acquisition Devices data sheet for U2351A.

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
Analog Input Resolution	16 bits no missing codes
Analog Input Channels	16 SE / 8 DI
Maximum Sampling Rate	250 kSa/s
Analog Output Resolution	16 bits
Analog Output Channels	2
Analog Output Update Rate	1 MSa/s
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
Counter Input Frequency	0.1 Hz to 6 MHz at 50 percent duty
FIFO Buffer Analog Input	up to 8 MSa
Module Dimension With Case WxDxH	120.00 x 182.40 x 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
Analog Output Function Modes	sine square triangle sawtooth noise
Scan List Memory	up to 100 channel entries
Trigger Modes AI	pre delay post middle
Notes	
From Keysight U2300A Series USB Modular Multifunction Data Acquisition Devices data sheet for U2351A.	

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.