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Data Sheet

August 31, 2026

HP / AGILENT

HP / Agilent 54825A Infiniium Oscilloscope: 4 Channels, 500 MHz, 2 GSa/s

Agilent 54825A Infiniium Oscilloscope 500 MHz 4 Channel The Agilent 54825A is a four-channel Infiniium digitizing oscilloscope with 500 MHz analog bandwidth and 2 GSa/s real-time sample rate on each channel. OEM datasheet memory depth is 32,768 points per channel. General-purpose high-speed debug, four-channel timing analysis, eye-diagram and mask testing workflows, and networked documentation via LAN. Windows based Infiniium GUI with drag and drop measurements The Agilent 54825A is a four-channel Infiniium digitizing oscilloscope with 500 MHz analog bandwidth and 2 GSa/s real-time sample rate on each channel. OEM datasheet memory depth is 32,768 points per channel. General-purpose high-speed debug, four-channel timing analysis, eye-diagram and mask testing workflows, and networked documentation via LAN. Windows based Infiniium GUI with drag and drop measurements Equivalent time sampling to 100 GSa/s effective



MODEL

**HP / Agilent
54825A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

54825A

LISTING

<https://aumictechlabs.com/products/54825a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 54825A Infiniium Oscilloscope is a versatile tool for signal analysis. Featuring 4 channels, it can simultaneously capture multiple signals. Its 500 MHz bandwidth makes it suitable

for analyzing high-frequency signals, and the 2 GSa/s sampling rate ensures accurate signal representation. The Infiniium series is known for its advanced features and ease of use, making it a valuable asset for engineers and technicians.

54825A Characteristics / Specifications

PARAMETER	VALUE
Analog Channels	4 simultaneous
Analog Bandwidth	500 MHz
Real Time Bandwidth	500 MHz
Maximum Real Time Sample Rate	2 GSa/s on each channel
Maximum Effective Sample Rate Equivalent Time	100 GSa/s
Memory Depth	32768 points per channel
Rise Time Equivalent Time	700 ps
Vertical Sensitivity 1 MOhm	1 mV/div to 5 V/div
Vertical Sensitivity 50 Ohm	1 mV/div to 5 V/div
Input Impedance 1 MOhm	plus or minus 1% approximately 8 pF
Input Impedance 50 Ohm	plus or minus 1%
Input Coupling	dc, ac (7 Hz in 1 MOhm)
Maximum Input 1 MOhm	plus or minus 250 V (dc + ac) CATI Peak Detect Glitch Width: 1 ns or wider at 250 MSa/s or less
Averaging	selectable from 2 to 4096
System Bandwidth With 1160A Probe	500 MHz
System Bandwidth With 1162A Probe	25 MHz
System Bandwidth With 1163A Probe	500 MHz
Sampling Modes	Real Time, Equivalent Time, Peak Detect
Memory Depth Manual Range	16 to 32768 points
Bandwidth Limit Filter Ratio	BW equals sample rate divided by 20
Warm Up Spec Condition	30 minutes and within plus or minus 10 C of calibration temperature
Probe Comp Class	Infiniium probe interface family
Bandwidth	500 MHz
Rise Time	Equivalent Time: 700 ps

54825A Specifications

PARAMETER	VALUE
Agilent 54825A Infiniium Oscilloscope 500 MHz 4 Channel	Overview
Color grade persistence and FFT/histograms	Standard LAN GPIB RS-232 Centronics
Technical Specifications	Analog Channels: 4 simultaneous
Notes	Specs from Agilent Infiniium 54810/15/20/25/35/45A Oscilloscopes data sheet focusing on 54825A.

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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Notes	
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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.