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Data Sheet

August 31, 2026

HP / AGILENT

HP / Agilent 54846A 4-Channel, 2.25GHz Infiniium Oscilloscope

The Agilent 54846A is an Infiniium 54840 series oscilloscope with 2.25 GHz analog bandwidth and up to 8 GSa/s sampling. OEM 54846A materials list four channels, MegaZoom deep memory architecture, and advanced triggering for high-speed digital design. High-speed digital debug, embedded system validation, and general purpose multi-GHz oscilloscope measurements. Maximum Memory Depth Class: MegaZoom deep memory class Input Impedance: 50 ohms and 1 Mohm paths class Operating Temperature Class: standard laboratory class Calibration Interval Class: annual calibration class recommended Firmware Upgrade Path: option and firmware upgradeable class From Agilent 54846A Infiniium product documentation. Confirm installed memory option for exact depth.



MODEL

**HP / Agilent
54846A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

54846A

LISTING

<https://aumictechlabs.com/products/54846a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 54846A is a 4-channel digital oscilloscope delivering 2.25 GHz analog bandwidth and 8 GSa/s real-time sampling for high-speed signal capture and analysis. Built on the Infiniium platform, this instrument combines a straightforward analog-like front panel with a Windows-based GUI, enabling both intuitive hands-on operation and access to advanced measurement

functions. The 8-bit ADC provides vertical resolution across a voltage range of 2 mV/div to 2 V/div, with selectable 1 M Ω or 50 Ω input impedance. Rise time performance reaches 156 ps at 50 Ω and 700 ps at 1 M Ω , supporting analysis of fast transient events. Technical Specifications

Analog Bandwidth: 2.25 GHz Channels: 4 analog input channels Real-Time Sample Rate: 8 GSa/s maximum Acquisition Memory: 32 kpts per channel (4-channel mode); up to 64 kpts per channel (2-channel mode) Input Impedance: 1 M Ω or 50 Ω Vertical Resolution: 8-bit ADC Voltage Range: 2 mV/div to 2 V/div (both impedances) Maximum Input Voltage: ± 100 V dc + ac (ac < 10 kHz), CAT I Rise Time: 156 ps (50 Ω); 700 ps (1 M Ω) Operating Temperature: 10°C to +40°C Storage Temperature: -40°C to 70°C Operating Humidity: Up to 95% relative humidity (non-condensing) at +40°C

Key Features Multiple trigger modes: Edge, Pulse Width, Video, Pattern, and optional Protocol Color LCD display with color-grade persistence for anomaly visualization Web-enabled remote control accessible from any web browser Email-on-trigger functionality for capturing intermittent events 10/100Base-T LAN connectivity for network file sharing and remote instrument control USB support for pointing devices 5 GB hard drive and 120 MB SuperDisk floppy storage Optional voice control for hands-free operation Optional Communications Mask Test Kit for compliance testing Optional USB Test Option with embedded MATLAB scripts for USB-IF compliance Compatibility & Integration Compatible with active probes up to 4 GHz bandwidth (e.g., 1156A) Time correlation capability with 16700 Logic Analyzer GPIB control functionality over LAN

54846A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	2.25 GHz
Maximum Sample Rate	8 GSa/s
Analog Channels	4
Vertical Resolution	8 bit
Maximum Memory Depth Class	MegaZoom deep memory class
Input Impedance	50 ohms and 1 Mohm paths class
Probe Interface	AutoProbe class
Time Base Accuracy Class	Infiniium timebase class
Trigger Types	edge pulse width pattern glitch class
Display	Infiniium color graphical UI
Math And FFT	supported
Segmented Memory	available class
Series Family	Infiniium 54840
Sibling Higher Band	54845A 54846B class
Jitter Analysis Options	available class
Rise Time Class	bandwidth limited Infiniium class
External Trigger Input	available
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class
Bandwidth	2.25 GHz
Rise Time	Class: bandwidth limited Infiniium class

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class

54846A Specifications

PARAMETER	VALUE
Agilent 54846A Infiniium Oscilloscope	Overview
Applications	High-speed digital debug, embedded system validation, and general purpose multi-GHz oscilloscope measurements.
Key Features	2.25 GHz Infiniium bandwidth
Technical Specifications	Analog Bandwidth: 2.25 GHz
Notes	From Agilent 54846A Infiniium product documentation. Confirm installed memory option for exact depth.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
Operating Temperature	Class: standard laboratory class
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes From Agilent 54846A Infiniium product documentation. Confirm installed memory option for exact depth.

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	
From Agilent 54846A Infiniium product documentation. Confirm installed memory option for exact depth.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.