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**Data Sheet**

August 31, 2026

HP / AGILENT

# HP / Agilent 54835A Infiniium Oscilloscope: 4 Channels, 1 GHz, up to 4 GSa/s

Hard Drive Class: greater than or equal to 20 GB Remote Interfaces: LAN GPIB USB VGA Centronics Segmented Memory: available on supported serial numbers and firmware From Agilent 54835A/54845A/54846A high-performance Infiniium oscilloscope data sheet columns for 54835A. Remote Interfaces: LAN GPIB USB VGA Centronics Segmented Memory: available on supported serial numbers and firmware From Agilent 54835A/54845A/54846A high-performance Infiniium oscilloscope data sheet columns for 54835A.



MODEL

**HP / Agilent  
54835A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**54835A**

LISTING

<https://aumictechlabs.com/products/54835a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Agilent/HP 54835A Infiniium Oscilloscope is a four-channel, 1 GHz bandwidth instrument engineered for signal acquisition and analysis. It delivers maximum sample rates of 4 GSa/s in 2-channel mode and 2 GSa/s per channel in 4-channel mode, with configurable memory from 16 to 32,768 points (4-channel) or 16 to 65,536 points (2-channel). The scope combines an analog-style front panel with dedicated scale and position knobs for each channel, trigger LEDs, and a Windows-based graphical user interface supporting pull-down menus, dialog boxes, and drag-and-drop waveform management. Technical Specifications Channels: 4 analog inputs Bandwidth:

1 GHz Sample Rate: 4 GSa/s (2-channel mode); 2 GSa/s per channel (4-channel mode) Memory Depth: 32K points per channel (4-channel); 64K points per channel (2-channel); user-selectable from 16 to 32,768 points (4-channel) or 16 to 65,536 points (2-channel) Input Impedance: 50  $\Omega$  front-end; 1 M $\Omega$  (general-purpose probes) Power Supply: 100–240 VAC autoranging, ~390 W maximum Key Features Advanced triggering: edge, glitch, logic, state, video, rise/fall time, setup/hold time, runt pulse, and violation triggering Color-graded persistence, histograms, and eye diagram measurements Optional communications mask testing QuickMeas+ front-panel key for instant measurement access Data storage on 5 GByte hard drive, 120 MByte SuperDisk, or network drives Web-enabled remote control and e-mail trigger notification Optional embedded MATLAB for USB testing Optional hands-free voice control Connectivity & Integration 10/100Base-T LAN for network operations and remote control USB, GPIB (IEEE 488.2), RS-232 (2x COM ports) Centronics printer port and VGA video output Time correlation with Agilent 16700 logic analyzer via optional fixture Auxiliary output (DC, square wave, trigger output)

## 54835A Characteristics / Specifications

| PARAMETER                                | VALUE                                              |
|------------------------------------------|----------------------------------------------------|
| Model                                    | 54835A                                             |
| Channels                                 | 4                                                  |
| Analog Bandwidth 50 Ohm                  | 1.0 GHz                                            |
| Analog Bandwidth 1 Mohm With 1161A Probe | 500 MHz                                            |
| Sample Rate 2 Channel Mode               | 4 GSa/s                                            |
| Sample Rate 4 Channel Mode               | 2 GSa/s                                            |
| Memory Depth 2 Channel Mode              | 65536 points                                       |
| Memory Depth 4 Channel Mode              | 32768 points                                       |
| Equivalent Time Effective Rate           | 500 GSa/s                                          |
| Rise Time 50 Ohm Class                   | 350 ps class family 1 GHz models                   |
| Vertical Sensitivity 50 Ohm              | 2 mV/div to 1 V/div class family                   |
| Input Impedance                          | 1 Mohm or 50 Ohm                                   |
| Display                                  | 8.4 inch color active matrix LCD class family      |
| Series Family                            | Agilent Infiniium 54835A/54845A/54846A             |
| Sibling 54845A                           | 1.5 GHz up to 8 GSa/s                              |
| Sibling 54846A                           | 2.25 GHz up to 8 GSa/s                             |
| Rise Time 1 Mohm Class                   | 700 ps                                             |
| Maximum Input 1 Mohm Class               | plus or minus 100 V (DC+AC) CATIclass family       |
| Maximum Input 50 Ohm Class               | 5 Vrms CATIclass family                            |
| DC Gain Accuracy Class                   | plus or minus 1 percent of full scale class family |
| Timebase Accuracy Class                  | 15 ppm class family Infiniium 54830                |
| Processor Class                          | Pentium III 1 GHz                                  |
| CPU Memory                               | 512 MB                                             |
| Hard Drive Class                         | greater than or equal to 20 GB                     |
| Operating System                         | Windows XP Pro                                     |

| PARAMETER         | VALUE                                              |
|-------------------|----------------------------------------------------|
| Remote Interfaces | LAN GPIB USB VGA Centronics                        |
| Segmented Memory  | available on supported serial numbers and firmware |
| Bandwidth         | 50 Ohm: 1.0 GHz                                    |
| Rise Time         | 50 Ohm Class: 350 ps class family 1 GHz models     |

# 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.

performance Infiniium datasheets list 64K memory in 2-channel mode and equivalent-time sampling to 500 GSa/s effective.

Applications

High-speed digital debug needing 1 GHz bandwidth and multi-GSa/s real-time sampling on four channels.

Key Features

4 analog channels at 1 GHz

Up to 4 GSa/s real-time sampling

Color-grade persistence FFT histograms

AutoProbe interface

Communication mask test options

Technical Specifications

### Technical Specifications

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| Rise Time 50 Ohm Class                   | 350 ps class family 1 GHz models                   |
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| Sibling 54845A                           | 1.5 GHz up to 8 GSa/s                              |
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| Rise Time 1 Mohm Class                   | 700 ps                                             |
| Maximum Input 1 Mohm Class               | plus or minus 100 V (DC+AC) CATIclass family       |
| Maximum Input 50 Ohm Class               | 5 Vrms CATIclass family                            |
| DC Gain Accuracy Class                   | plus or minus 1 percent of full scale class family |

| PARAMETER               | VALUE                                              |
|-------------------------|----------------------------------------------------|
| Timebase Accuracy Class | 15 ppm class family Infiniium 54830                |
| Processor Class         | Pentium III 1 GHz                                  |
| CPU Memory              | 512 MB                                             |
| Hard Drive Class        | greater than or equal to 20 GB                     |
| Operating System        | Windows XP Pro                                     |
| Remote Interfaces       | LAN GPIB USB VGA Centronics                        |
| Segmented Memory        | available on supported serial numbers and firmware |

#### Notes

From Agilent 54835A/54845A/54846A high-performance Infiniium oscilloscope data sheet columns for 54835A.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.