


Aumictech

Test & measurement • bought, sold, repaired, calibrated

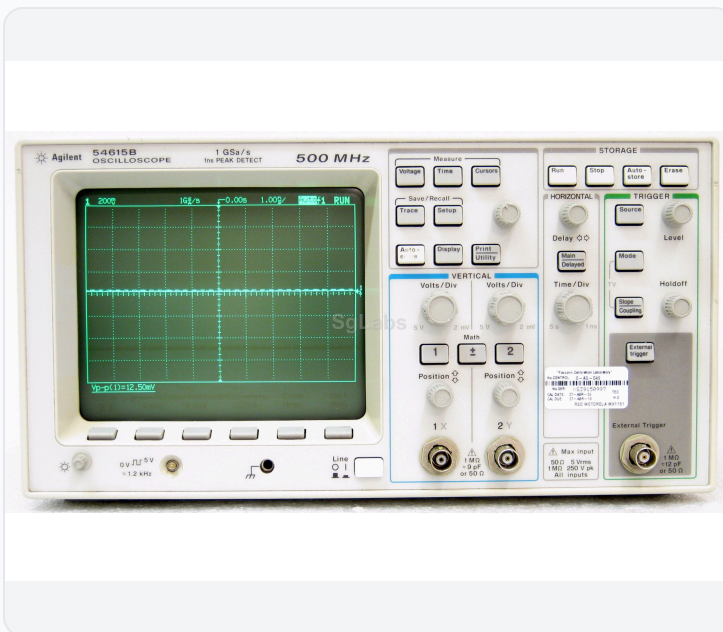
Data Sheet

August 31, 2026

HP / AGILENT

HP / Agilent 54615B 2 Channel Oscilloscope, 1 GSa/s 500 MHz

Trigger Modes: edge and advanced trigger set Automatic Measurements: pulse parameter set Probe Interface: standard passive / 50 ohm path Bandwidth, sample rate, channel count, and 5k memory from HP/Agilent 54615B product specifications. Confirm exact vertical/timebase warranted tables on the datasheet for the installed Brevison. Automatic Measurements: pulse parameter set Probe Interface: standard passive / 50 ohm path Bandwidth, sample rate, channel count, and 5k memory from HP/Agilent 54615B product specifications. Confirm exact vertical/timebase warranted tables on the datasheet for the installed Brevison.



MODEL

**HP / Agilent
54615B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

54615B

LISTING

<https://aumictechlabs.com/products/54615b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 54615B is a 2-channel digital oscilloscope delivering 500 MHz bandwidth and 1 GSa/s simultaneous sampling per channel for high-speed analog and digital circuit characterization. This instrument combines intuitive front-panel controls with advanced digital processing capabilities, enabling precise waveform capture and analysis in laboratory and field troubleshooting environments. Technical Specifications Bandwidth: 500 MHz (single-shot: 250 MHz) Sample Rate: 1 GSa/s per channel simultaneous Peak Detect: 1 ns Sweep Speed Range: 1 ns/div to 5 s/div Vertical Sensitivity: 2 mV/div to 5 V/div Dynamic Range: ± 12 div from center

screen Horizontal Accuracy: $\pm 0.005\%$ or 0.01% Input Coupling: DC, AC, Ground Input Impedance: Selectable $50\ \Omega$ or $1\ \text{M}\Omega$ Input Capacitance: Approximately $9\ \text{pF}$ Maximum Input Voltage: $250\ \text{V}$ (dc + peak ac) or $5\ \text{V}_{\text{rms}}$ in $50\ \Omega$ mode CMRR: Approximately $20\ \text{dB}$ at $50\ \text{MHz}$ Bandwidth Limit: Approximately $30\ \text{MHz}$ Trigger Sensitivity: $0.35\ \text{div}$ or $3.5\ \text{mV}$ (DC to $25\ \text{MHz}$) Display: Monochrome Physical: Compact, under 15 pounds Key Features External trigger input with viewable trigger signal Autoscale function automatically optimizes voltage, time, and trigger setup Negative time acquisition captures pre-trigger events Cursor-based and automatic measurements accelerate analysis Probe compensation and automatic attenuation factor detection for compatible probes Waveform storage via button control Undo autoscale capability to revert prior configurations Typical Applications General-purpose analog and digital circuit testing; high-speed signal characterization; laboratory troubleshooting; waveform visualization and timing analysis. Compatibility & Integration Supports optional measurement/storage modules including FFT analysis, test automation via HPIB, and automatic measurement capabilities. BenchLink software enables PC integration and data transfer under Windows. External trigger input accommodates remote control and synchronization. Compatible with various Agilent active probes including the 1141A series.

54615B Characteristics / Specifications

PARAMETER	VALUE
Analog Channels	2
Analog Bandwidth	500 MHz
Maximum Sample Rate	1 GSa/s
Memory Depth	5000 points
Product Family	54615B/54616B
Related Higher Rate Sibling	54616B 2 GSa/s
Vertical Sensitivity Class	1 mV/div to 5 V/div class
Input Impedance	1 MOhm or 50 ohm class
Maximum Input 1 MOhm Class	plus/minus 250 V class
Maximum Input 50 Ohm Class	5 V rms class
DC Gain Accuracy Class	plus/minus 1.25 percent class family
Time Base Range Class	ns/div to s/div span
Trigger Modes	edge and advanced trigger set
Automatic Measurements	pulse parameter set
Display	MegaZoom CRT/LCD family package
Connectivity	HP-IB / RS-232 class
Peak Detect	glitch capture class
Operators	math and delayed sweep class
Form Factor	54600-series benchtop
Operating Temperature Class	0 to 55 C
Documentation	54615B/54616B datasheet
Probe Interface	standard passive / 50 ohm path
Bandwidth	500 MHz
Operating temperature	Class: 0 to 55 C

54615B Specifications

PARAMETER	VALUE
Agilent 54615B 500 MHz 1 GSa/s Oscilloscope	Overview
Applications	General-purpose 500 MHz two-channel debug and production test with 1 GSa/s single-shot capture.
Key Features	500 MHz bandwidth
Technical Specifications	Analog Channels: 2

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
Operating Temperature	Class: 0 to 55 C
Operating Temperature Class	0 to 55 C
Documentation	54615B/54616B datasheet
Probe Interface	standard passive / 50 ohm path Notes Bandwidth, sample rate, channel count, and 5k memory from HP/Agilent 54615B product specifications. Confirm exact vertical/timebase warranted tables on the datasheet for the installedBrevision.

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 Channels	2
Analog Bandwidth	500 MHz
Maximum Sample Rate	1 GSa/s
Memory Depth	5000 points
Product Family	54615B/54616B
Related Higher Rate Sibling	54616B 2 GSa/s
Vertical Sensitivity Class	1 mV/div to 5 V/div class
Input Impedance	1 MOhm or 50 ohm class
Maximum Input 1 MOhm Class	plus/minus 250 V class
Maximum Input 50 Ohm Class	5 V rms class
DC Gain Accuracy Class	plus/minus 1.25 percent class family
Time Base Range Class	ns/div to s/div span
Trigger Modes	edge and advanced trigger set
Automatic Measurements	pulse parameter set
Display	MegaZoom CRT/LCD family package
Connectivity	HP-IB / RS-232 class
Peak Detect	glitch capture class
Operators	math and delayed sweep class
Form Factor	54600-series benchtop
Operating Temperature Class	0 to 55 C
Documentation	54615B/54616B datasheet
Probe Interface	standard passive / 50 ohm path
Notes	
Bandwidth, sample rate, channel count, and 5k memory from HP/Agilent 54615B product specifications. Confirm exact vertical/timebase warranted tables on the datasheet for the installedBrevision.	

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 31, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.