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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 54832D

Timebase Accuracy Class: 15 ppm class family Infiniium 54830 Hard Drive Class: greater than or equal to 20 GB Remote Interfaces: LAN GPIB USB VGA Centronics From Agilent Infiniium 54830 Series Oscilloscopes data sheet 5988-3788EN model column for 54832D. Memory option codes 040/080/160/320/640 set deeper acquisition memory. Hard Drive Class: greater than or equal to 20 GB Remote Interfaces: LAN GPIB USB VGA Centronics From Agilent Infiniium 54830 Series Oscilloscopes data sheet 5988-3788EN model column for 54832D. Memory option codes 040/080/160/320/640 set deeper acquisition memory.



MODEL	CALIBRATION
Agilent / Keysight 54832D	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
54832D	https://aumictechlabs.com/products/54832d-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 54832D is a 1 GHz mixed-signal oscilloscope integrating analog signal analysis with 16-channel digital timing measurements. It enables direct correlation of analog and digital events for efficient troubleshooting in complex mixed-signal environments. Technical Specifications Bandwidth: 1 GHz Analog channels: 4 Digital timing channels: 16 Sample rate: Up to 4 GSa/s Memory depth: 4 Mpts standard; up to 128 Mpts optional Input impedance: 1 MΩ ± 1% (13 pF typical) or 50 Ω ± 1.5% Maximum input voltage: 400 V dc + peak ac (10070C probe, CAT II); 500 V dc + peak ac (10073C probe, CAT I) Power: 100–240 VAC, ± 10%, 47–440 Hz Key Features Mixed-signal triggering across all analog and digital channels MegaZoom technology for instant

response and fast waveform updates at deep memory depths Windows GUI with analog-like front panel operation Web-enabled remote control, email-on-trigger capability LAN (10Base-T/100Base-T), GPIB (IEEE 488.2), RS-232, USB (2 ports), PS/2 (2 ports), parallel printer, and VGA video output Auxiliary outputs: DC (± 2.4 V), square wave (715 Hz $\pm 15\%$ or $\pm 5\%$), trigger output (255 mV p-p into 50 Ω), TTL compatible signal Operating temperature: -10 $^{\circ}\text{C}$ to $+55$ $^{\circ}\text{C}$ (with 0 $^{\circ}\text{C}$ to $+50$ $^{\circ}\text{C}$ range also listed) Humidity: Up to 90% relative humidity at 40 $^{\circ}\text{C}$ (up to 95% non-condensing at $+40$ $^{\circ}\text{C}$) Altitude: Up to 4,600 meters (15,000 ft.) Dimensions: 437 mm W $\times$ 440 mm D $\times$ 216 mm H (excluding handle) Net weight: 13.4 kg (29.5 lbs) Typical Applications Debugging embedded systems, validating mixed-signal designs, correlating timing events across analog and digital domains, protocol analysis on digital channels with simultaneous analog signal observation. Compatibility & Integration Time correlation with Agilent/Keysight 16900/16700/1680/1690 series logic analyzers and oscilloscopes. Passive probes ordered separately. Logic cable and probe typically included.

54832D Characteristics / Specifications

PARAMETER	VALUE
Model	54832D
Analog Channels	4
Digital Channels	16
Analog Bandwidth 50 Ohm	1 GHz
Calculated Rise Time 50 Ohm	350 ps
Analog Bandwidth 1 Mohm With 1165A Probe	500 MHz
Sample Rate	4 GSa/s two-channel mode; 2 GSa/s four-channel mode
Standard Memory	2 Mpts/ch (4 Mpts max) standard
Maximum Memory With Options	64 Mpts/ch (128 Mpts max) interleaved
Equivalent Time Sample Rate Max	250 GSa/s
Digital Max Real Time Sample Rate	1 GSa/s (54830D/31D/32D/33D)
Vertical Sensitivity 1 Mohm	1 mV/div to 5 V/div
Vertical Sensitivity 50 Ohm	1 mV/div to 1 V/div
Vertical Resolution	8 bits; greater than or equal to 12 bits with averaging
Input Impedance	1 MOhm plus or minus 1 percent (13 pF typical) or 50 Ohm plus or minus 1.5 percent
Hardware Bandwidth Limit	20 MHz
Input Coupling 1 Mohm	AC DC
Input Coupling 50 Ohm	DC
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

PARAMETER	VALUE
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
Bandwidth	50 Ohm: 1 GHz
Rise Time	50 Ohm: 350 ps

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 Infiniium 54830 Series Oscilloscopes data sheet 5988-3788EN model column for 54832D. Memory option codes 040/080/160/320/640 set deeper acquisition memory.

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.