


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 54830D

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 54830D. 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 54830D. Memory option codes 040/080/160/320/640 set deeper acquisition memory.



MODEL Agilent / Keysight 54830D	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 54830D	LISTING https://aumictechlabs.com/products/54830d-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 54830D is a 600 MHz mixed-signal oscilloscope integrating 2 analog channels with 16 digital timing channels for simultaneous capture of analog and digital signals in complex embedded systems. The instrument delivers sample rates up to 4 GSa/s, configurable memory to 128 Mpts, and mixed-signal triggering across all channels. An 8.4-inch color display and analog-style front panel provide intuitive operation, while a Windows-based GUI enables advanced measurement functions and remote control via LAN connectivity. Technical Specifications Bandwidth: 600 MHz Analog Channels: 2 Digital Channels: 16 timing inputs Sample Rate: Up to 4 GSa/s (1-channel), 2 GSa/s (2-channel) Memory Depth: 4 Mpts standard (2

Mpts/channel); optional up to 128 Mpts (16 Mpts/channel) Vertical Resolution: 8-bit Display: 8.4-inch high-resolution color FFT Analysis: DC to 2 GHz (2-channel interleaved), DC to 1 GHz (single channel), DC to 4 GHz (2-channel interleaved) Connectivity: 10/100 Mbps LAN, RS-232, Centronics, GPIB over LAN Storage: 5 GByte internal hard drive, 120 MByte LS-120 SuperDiskKey Features Mixed-signal triggering with conditional logic across analog and digital channels MegaZoom technology for fast waveform updates with deep memory Waveform math: FFT magnitude/phase, eye diagrams, AutoMask pass/fail testing, histograms Multiple analysis modes: add, subtract, multiply, divide, differentiate, integrate, invert, average Export in ASCII or Microsoft Excel; image formats: BMP, PCX, TIF, GIF, EPS, PS HP DeskJet and LaserJet printer support Web-enabled remote control with email-on-trigger notificationsTypical Applications Communications protocol analysis, aerospace electronics testing, embedded system development, digital signal validation, and mixed-signal circuit characterization.Compatibility & Integration Works with Agilent/Keysight active probes (1156A, 1157A, 1158A up to 4 GHz; 1155A at 750 MHz). Time-correlates with 16900/16700/1680/1690 series logic analyzers. Supports N5397A FPGA Dynamic Probe integration.

54830D Characteristics / Specifications

PARAMETER	VALUE
Model	54830D
Analog Channels	2
Digital Channels	16
Analog Bandwidth 50 Ohm	600 MHz
Calculated Rise Time 50 Ohm	583 ps
Analog Bandwidth 1 Mohm With 1165A Probe	500 MHz
Sample Rate	4 GSa/s one-channel mode; 2 GSa/s two-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: 600 MHz
Rise Time	50 Ohm: 583 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	
Specifications	
PARAMETER	VALUE
Model	54830D
Analog Channels	2
Digital Channels	16
Analog Bandwidth 50 Ohm	600 MHz
Calculated Rise Time 50 Ohm	583 ps
Analog Bandwidth 1 Mohm With 1165A Probe	500 MHz
Sample Rate	4 GSa/s one-channel mode; 2 GSa/s two-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 Infinium 54830
Processor Class	Pentium III 1 GHz
Cpu Memory	512 MB

PARAMETER	VALUE
Hard Drive Class	greater than or equal to 20 GB
Operating System	Windows XP Pro
Remote Interfaces	LAN GPIB USB VGA Centronics

Notes

From Agilent Infiniium 54830 Series Oscilloscopes data sheet 5988-3788EN model column for 54830D. 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

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 14, 2026

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