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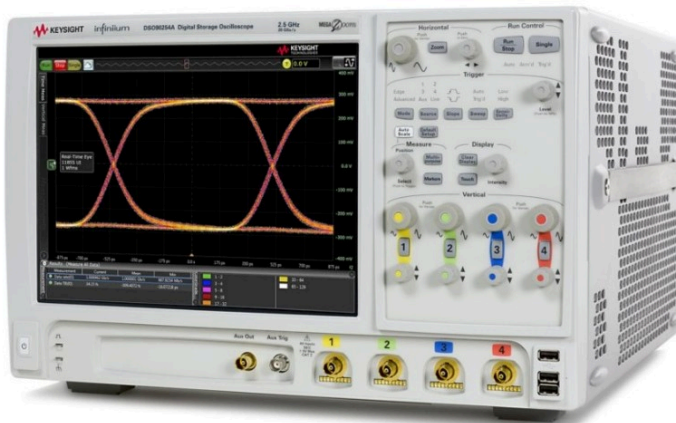
Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSO90254A Infiniium High Performance Oscilloscope: 2.5 GHz

The Agilent DSO90254A is an Infiniium class oscilloscope with 2.5 GHz analog bandwidth and 20 GSa/s class interleaved maximum sample rate. OEM DSO90254A materials list deep memory options, advanced triggering, and analysis applications for high-speed digital and RF debug. High-speed digital debug, serial bus analysis, power integrity checks, and general purpose oscilloscope measurements on the 2.5 GHz platform. Maximum Sample Rate: 20 GSa/s class interleaved Maximum Memory Depth: deep Infiniium 9000 memory class Operating Temperature Class: standard laboratory class Calibration Interval Class: annual calibration class recommended Firmware Upgrade Path: option and firmware upgradeable class Bandwidth and sample rate from Agilent/Keysight DSO90254A oscilloscope documentation. Confirm installed memory and application options for exact record length.



MODEL

**Agilent / Keysight
DSO90254A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSO90254A

LISTING

<https://aumictechlabs.com/products/dso90254a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight DSO90254A Infiniium is a 2.5 GHz analog oscilloscope built for signal integrity analysis in high-speed digital, telecommunications, and semiconductor test environments. Four analog channels deliver 20 GSa/s maximum sample rate with up to 1 Gpts memory depth, enabling

capture and analysis of complex transient behavior. A 10-bit ADC and 0.64 mVrms noise floor at 50 mV/div support precise measurements across low-level signals. The instrument scales vertically to 2 mV/div in hardware and accepts inputs up to 30 V peak (CAT I), with ESD tolerance exceeding 8 kV (100 pF, 300 Ω HBM). Technical Specifications Bandwidth: 2.5 GHz (upgradeable to 13 GHz) Analog Channels: 4 Sample Rate: 20 GSa/s on 4 channels Memory Depth: 20 Mpts standard; 1 Gpts maximum Vertical Resolution: 10-bit ADC Vertical Scaling: 2 mV/div to 1 V/div hardware range Input Range: 1 mV/div to 1 V/div adjustable attenuation Maximum Input: 30 V peak, CAT I Noise Floor: 0.64 mVrms at 50 mV/div ESD Protection: > 8 kV from 100 pF, 300 Ω HBM Slew Rate: 18 V/ns single-ended; 30 V/ns differential Probe Attenuation: 10:1 $\pm$ 1% after calibration Zero Offset Error: < 5 mV after calibration Offset Range: $\pm$ 12.0 V single-ended Propagation Delay: $\sim$ 6 ns, deskewable Operating Temperature: 5 $^{\circ}$ C to +40 $^{\circ}$ C Power Dissipation: 375 W maximum Line Input: Auto-ranging 100–240 VAC Key Features FFT analysis to 20 GHz with resolution bandwidths down to 400 Hz at maximum sample rate Comprehensive trigger modes: edge, glitch, runt, timeout, pattern, state, pulse width, window, setup/hold, video, serial, and protocol-specific Advanced math functions including FFT magnitude/phase, integrate, differentiate, and multi-pole filtering High-speed Serial Data Analysis (SDA) and EZJIT Complete options 12.1-inch color XGA TFT-LCD touch screen (15-inch high-definition display option) 26 lbs weight; 9-inch depth Typical Applications Signal integrity validation, jitter analysis, high-speed digital debugging, telecommunications testing, semiconductor characterization, and complex transient capture. Compatibility & Integration USB 2.0 (host/device), LAN, and GPIB connectivity. Protocol analyzer support includes I2C, SPI, RS-232/UART, USB 2.0, CAN/LIN/FlexRay, JTAG, HDMI, WCDMA, cdma2000, 802.11 WiFi, 802.16 WiMax, MIPI D-PHY, DDR1, and DDR2.

DSO90254A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	2.5 GHz
Maximum Sample Rate	20 GSa/s class interleaved
Analog Channels	4
Maximum Memory Depth	deep Infiniium 9000 memory class
Vertical Resolution	8 bit
Input Impedance	50 ohms and 1 Mohm paths class
Input Coupling	AC DC GND
Time Base Range Class	wide Infiniium time base class
Trigger Types	edge pulse width pattern glitch class
Display	color LCD graphical UI
Probe Interface Class	AutoProbe or InfiniiMax class by series
Math Functions	waveform math and FFT class
Segmented Memory	available class
Peak Detect Mode	available class
Roll Mode Class	available at slow time bases class
Series Family	Infiniium 9000
InfiniiMax Probe Support	yes
Jitter Analysis Options	available
Protocol Decode Options	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

PARAMETER	VALUE
Bandwidth	2.5 GHz
Operating temperature	Class: standard laboratory class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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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 Bandwidth and sample rate from Agilent/Keysight DSO90254A oscilloscope documentation. Confirm installed memory and application options for exact record length.

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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PARAMETER	VALUE
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Trigger Types	edge pulse width pattern glitch class
Display	color LCD graphical UI
Probe Interface Class	AutoProbe or InfiniiMax class by series
Math Functions	waveform math and FFT class
Segmented Memory	available class
Peak Detect Mode	available class
Roll Mode Class	available at slow time bases class
Series Family	Infiniium 9000
InfiniiMax Probe Support	yes
Jitter Analysis Options	available
Protocol Decode Options	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

Notes

Bandwidth and sample rate from Agilent/Keysight DS090254A oscilloscope documentation. Confirm installed memory and application options for exact record length.

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.