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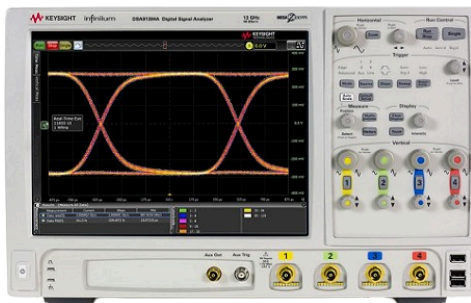
Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSA91304A Infiniium High Performance Oscilloscope: 13 GHz

Agilent / Keysight DSA91304A Infiniium High Performance Oscilloscope The Agilent/Keysight DSA91304A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 13 GHz DSP enhanced analog bandwidth, 40 GSa/s on all four channels simultaneously, and DSA standard memory of 50 Mpts per channel upgradeable to 1 Gpts, with Serial Data Analysis and EZJIT+ included on DSA models. High-speed serial link compliance, jitter analysis, and multi-gigabit digital debug requiring deep memory and low noise. The Agilent/Keysight DSA91304A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 13 GHz DSP enhanced analog bandwidth, 40 GSa/s on all four channels simultaneously, and DSA standard memory of 50 Mpts per channel upgradeable to 1 Gpts, with Serial Data Analysis and EZJIT+ included on DSA models. High-speed serial link compliance, jitter analysis, and multi-gigabit digital debug requiring deep memory and low noise. DSA software bundle including SDA and EZJIT+



MODEL

**Agilent / Keysight
DSA91304A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSA91304A

LISTING

<https://aumictechlabs.com/products/dsa91304a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight DSA91304A Infiniium High Performance Oscilloscope delivers 13 GHz true analog bandwidth for high-speed digital design and validation. With 4 analog channels, up to 40 GSa/s sample rate, and deep acquisition memory up to 1 Gpts per channel, this instrument captures complex signals with exceptional fidelity. Advanced triggering, protocol decode across multiple serial standards, and integrated jitter analysis make it ideal for signal integrity characterization and compliance testing.

Technical Specifications

Bandwidth: 13 GHz analog (upgradeable to 33 GHz) Channels: 4 analog Sample Rate: 40 GSa/s on 4 channels; 80 GSa/s on 2 channels (DSAX91304A) Acquisition Memory: 50 Mpts per channel standard; upgradeable to 1 Gpts per channel (DSA models) or 2 Gpts total (DSAX91304A) Vertical Resolution: 8 bits (>12 bits with averaging) Noise Floor: 1.73 mVrms at 50 mV/div; 1.25 mVrms at 13 GHz/50 mV/div (DSAX91304A); 2.80 mV at 100 mV/div (DSA91304A) Vertical Sensitivity: 50 mV/div Display: 12.1-inch XGA TFT-LCD touchscreen with 256-level intensity and color-graded persistence Interfaces: USB 2.0 (host and device), 10/100/1000 BaseT LAN, GPIB, RJ-45 connector

Key Features

Advanced triggering with InfiniiScan zone qualification software Protocol triggering and decode for I2C/SPI, RS-232/UART, USB 2.0, PCI Express, SAS/SATA, MIPI D-PHY, SPMI, CAN, LIN, and FlexRay High-speed serial data analysis (SDA) with EZJIT Complete and EZJIT Plus jitter analysis Hardware-accelerated de-embedding for probe, fixture, and channel compensation PrecisionProbe software for probe and cable loss characterization Serial Data Equalization (SDE) for virtual eye measurement at the pin Built-in FFT with magnitude and phase display InfiniiSim Waveform Transformation and De-embedding Toolset MATLAB support and user-defined application software Compliance testing software for USB 3.0, GDDR5, PCI Express Gen 2, DisplayPort, and HDMI

Typical Applications

High-speed digital design validation and debug Serial protocol analysis and compliance verification Jitter and signal integrity characterization Multi-standard serial data measurement and equalization

Compatibility & Integration

The DSA91304A integrates with MATLAB for custom analysis routines and supports remote control via GPIB and LAN interfaces. Optional probe and fixture de-embedding, along with equalization software, extend measurement capabilities beyond the instrument's native specifications.

DSA91304A Characteristics / Specifications

PARAMETER	VALUE
Model	DSA91304A
Analog Bandwidth	13 GHz DSP enhanced
Maximum Real Time Sample Rate	40 GSa/s on 4 channels simultaneously
Analog Channels	4
DSA Standard Memory	50 Mpts on 4 channels
Maximum Memory Option	1 Gpts on 4 channels
Noise Floor Class At 50 mV/div	1.73 mVrms class family table
Typical Rise Time 10 To 90 Percent	32 ps
Typical Rise Time 20 To 80 Percent	23 ps
Input Impedance	50 ohm plus or minus 3 percent
Input Sensitivity	1 mV/div to 1 V/div
Input Coupling	DC
Vertical Resolution	8 bits, greater than or equal to 12 bits with averaging
Minimum Intersegment Time	2.7 us
Peak Detect Sample Rate	40 GSa/s
Equivalent Time Resolution Class	100 fs class or better per revision
Series Family	Infiniium 90000A DSA
Included Analysis Class	Serial Data Analysis and EZJIT+
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium
Brand Lineage	Agilent / Keysight
Probe Support Class	InfiniiMax probing system
Bandwidth	13 GHz DSP enhanced
Rise Time	10 To 90 Percent: 32 ps

DSA91304A Specifications

PARAMETER	VALUE
Applications	High-speed serial link compliance, jitter analysis, and multi-gigabit digital debug requiring deep memory and low noise.
Key Features	40 GSa/s simultaneous on four channels
Technical Specifications	Model: DSA91304A

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 Oscilloscope

Overview

The Agilent/Keysight DSA91304A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 13 GHz DSP enhanced analog bandwidth, 40 GSa/s on all four channels simultaneously, and DSA standard memory of 50 Mpts per channel upgradeable to 1 Gpts, with Serial Data Analysis and EZJIT+ included on DSA models.

Applications

High-speed serial link compliance, jitter analysis, and multi-gigabit digital debug requiring deep memory and low noise.

Key Features

40 GSa/s simultaneous on four channels
DSA software bundle including SDA and EZJIT+
Deep memory to 1 Gpts optional
Hardware accelerated de-embedding path
50 ohm precision input architecture

Technical Specifications

Technical Specifications

PARAMETER	VALUE
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Peak Detect Sample Rate	40 GSa/s
Equivalent Time Resolution Class	100 fs class or better per revision
Series Family	Infiniium 90000A DSA

PARAMETER	VALUE
Included Analysis Class	Serial Data Analysis and EZJIT+
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium
Brand Lineage	Agilent / Keysight
Probe Support Class	InfiniiMax probing system

Notes
From Keysight Infiniium 90000 Series Oscilloscopes data sheet and Agilent DS0/DSA90000A Series data sheet model row for DSA91304A. DSA models include 50 Mpts standard 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
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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.