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Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSA91204A Infiniium High Performance Oscilloscope: 12 GHz

Agilent / Keysight DSA91204A Infiniium High Performance Oscilloscope The Agilent/Keysight DSA91204A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 12 GHz 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 DSA91204A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 12 GHz 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+ Maximum Real Time Sample Rate: 40 GSa/s on 4 channels simultaneously



MODEL

**Agilent / Keysight
DSA91204A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSA91204A

LISTING

<https://aumictechlabs.com/products/dsa91204a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight DSA91204A Infiniium is a 12 GHz bandwidth oscilloscope built for high-speed signal integrity and complex waveform analysis. This four-channel instrument captures signals at 40 GSa/s across all channels, with standard memory depth of 50 Mpts and upgradeable capacity to 1 Gpts. Engineers rely on it for detailed characterization of high-speed serial and parallel interfaces, leveraging its low noise floor of 1.45 mVrms at 50 mV/div and sub-500 fs trigger jitter for precision timing measurements.

Technical Specifications
Bandwidth: 12 GHz (upgradable to 13 GHz)
Analog Channels: 4
Maximum Sampling Rate: 40 GSa/s across all 4 channels
Standard Memory: 50 Mpts; upgradeable to 100 Mpts, 200 Mpts, 500 Mpts, or 1 Gpts
Noise Floor: 1.45 mVrms at 50 mV/div
Vertical Scale: 5 mV to 1 V (magnification used below 5 mV/div)
Resolution Bandwidth: 6 kHz at standard 10 MB memory; 2 kHz with optional acquisition memory
Trigger Jitter: <500 fs rms
Time Span Capture: Memory Depth $\times$ 1/Sampling Rate
Supported Windowing: Hanning, Flattop, Rectangular
Power Requirements: 100–240 V, 47–63 Hz; 800 W maximum

Key Features
12.1-inch color XGA TFT-LCD touchscreen display
Deep acquisition memory options from 20 Mpts to 1 Gpts for extended capture windows
LAN connectivity (10/100/1000 BaseT) with web-enabled remote access and Ultra VNC
GPIB and four USB 2.0 host ports for flexible instrument control
LXI Class C compliant

Typical Applications
High-speed serial data analysis with SDA software
Jitter characterization and RJ/DJ separation via EZJIT+
PCI Express, XAUI, DDR1/DDR2/DDR3, SATA 6 Gb/s, and USB 2.0 compliance testing
Bandwidth and noise reduction measurements

Compatibility & Integration
The oscilloscope integrates with standard test environments via GPIB and Ethernet. Remote operation is supported through LAN and GPIB interfaces. Compliance applications and specialized measurement software are available as options to extend analytical capability for specific protocol standards.

DSA91204A Characteristics / Specifications

PARAMETER	VALUE
Model	DSA91204A
Analog Bandwidth	12 GHz
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	1.45 mVrms class family table
Typical Rise Time 10 To 90 Percent	35 ps
Typical Rise Time 20 To 80 Percent	25 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	12 GHz
Rise Time	10 To 90 Percent: 35 ps

DSA91204A 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: DSA91204A

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 DSA91204A is an Infiniium 90000A Series DSA oscilloscope. OEM Infiniium 90000 Series data sheets list 12 GHz 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
Model	DSA91204A
Analog Bandwidth	12 GHz
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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

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 DSA91204A. 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.