

KEYSIGHT TECHNOLOGIES (AGILENT HP)

DSAX93204A

The Keysight Infiniium DSAX93204A is a high-performance 32 GHz Digital Signal Analyzer oscilloscope designed for ultra-high-speed digital and RF applications. Offering industry-leading real-time bandwidth, exceptionally low noise floors, and high-fidelity measurements, this 4-channel instrument is engineered for demanding tasks like jitter characterization, high-speed serial bus compliance testing, and wideband RF analysis.

SPECIFICATIONS

General

Interfaces	USB 2.0 Host (5 ports), USB 2.0 Device (1 port), LAN (10/100/1000Base-T), GPIB, DisplayPort, DVI-I, LXI Class C
Display	12.1-inch color XGA TFT-LCD capacitive touchscreen, 1024 x 768 pixels
Operating System	Windows 10 IoT Enterprise 64-bit (or Windows 7 in older revisions)

Physical

Power Supply	100 - 240 VAC at 50/60 Hz, power consumption 1100 VA maximum
Operating Temperature	5 °C to +40 °C °C
Dimensions (W×H×D)	441 mm × 282 mm × 519 mm mm
Weight	22.1 kg

Vertical System

Analog Bandwidth (-3 dB)	32 GHz (2 channels), 16 GHz (4 channels)
Calculated Rise Time (10% to 90%)	13.3 ps (2 channels), 26.6 ps (4 channels)
Calculated Rise Time (20% to 80%)	9.1 ps (2 channels), 18.2 ps (4 channels)
Number of Input Channels	4 analog channels
Input Impedance	50 Ω, ±1.5%
Input Coupling	DC
Vertical Resolution	8 bits (up to 12 bits with averaging or high-resolution mode)
Vertical Sensitivity Range	1 mV/div to 1 V/div
DC Gain Accuracy	±2% of full scale
Hardware Bandwidth Limits	Configurable in 1 GHz increments (from 1 GHz up to max bandwidth)
Probe Interface	AutoProbe II (compatible with InfiniiMax III probes)

Acquisition System

Maximum Real-Time Sample Rate	80 GSa/s (2 channels), 40 GSa/s (4 channels)
Standard Record Length (Memory Depth)	50 Mpts per channel (4 channels), upgradable to 2 Gpts
Segmented Memory	Standard, up to 131,072 segments
Acquisition Modes	Sample, Averaging, High Resolution, Envelope

Horizontal System

Timebase Range	2 ps/div to 20 s/div
Timebase Accuracy	±0.1 ppm (initial), ±0.1 ppm/year aging
Channel-to-Channel Deskew Range	±75 ns

Trigger System

Trigger Sources	Channel 1, Channel 2, Channel 3, Channel 4, Aux Trigger
Trigger Modes	Edge, Glitch, Width, Transition, Runt, Timeout, Pattern, State, Window, Setup/Hold
Trigger Holdoff Range	100 ns to 10 s
Edge Trigger Bandwidth	20 GHz

Waveform Measurements and Analysis

Standard Jitter Analysis	EZJit standard on DSA models
Automatic Measurements	Over 50 standard parameters (amplitude, timing, frequency, jitter)
Waveform Math Operators	Add, Subtract, Multiply, Divide, FFT, Integrate, Differentiate, Square Root, Absolute, Log, Filters

Environmental and Compliance

Storage Temperature Range	-40 °C to +70 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Operating Humidity	Up to 95% relative humidity at +40 °C

Inputs & Outputs

Input Connectors	1.85 mm male (with 50 Ohm input impedance)
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Acquisition

Maximum Memory Depth Option	Up to 2 Gpts (configuration dependent)
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Performance

Noise Floor (at 50 mV/div, 32 GHz)	2.12 mV RMS (typical)
Intrinsic Jitter Floor	< 100 fs RMS

Software

Standard Software Package	Serial Data Analysis (SDA), EZJit+
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General Specs

External Reference Input	10 MHz (50 Ohm, BNC connector)
External Reference Output	10 MHz (50 Ohm, BNC connector)

TECHNOLOGY

Digital Signal Analyzer (DSA) Real-Time Oscilloscope

APPLICATIONS

High-speed serial compliance, jitter analysis, RF and wireless design verification

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.