

KEYSIGHT TECHNOLOGIES (AGILENT HP)

DSA91304A

The Keysight (formerly Agilent) DSA91304A is a 13 GHz high-performance Digital Signal Analyzer (DSA) belonging to the Infiniium 90000A Series. Designed for rigorous signal integrity applications, debugging, and compliance testing, this model features 40 GSa/s maximum sample rates across all four analog channels and an industry-leading low noise floor. As a 'DSA' variant, it comes standard with 20 Mpts of acquisition memory per channel, EZJIT+ jitter analysis (including RJ/DJ separation), Serial Data Analysis (SDA) with clock recovery, real-time eye diagrams, and noise reduction software.

SPECIFICATIONS

General

Interfaces	USB 2.0, LAN (10/100/1000Base-T), GPIB, XGA video output, LXI Class C
Display	15-inch color XGA TFT-LCD touch screen

Physical

Power Supply	100 - 240 VAC, 50/60 Hz; 800 W max
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Vertical System (Analog Channels)

Analog Bandwidth	13 GHz
Number of Analog Channels	4
Input Impedance	50 Ω
Input Coupling	DC
Vertical Resolution	8 bits (up to 12 bits with averaging/high resolution)

Acquisition System

Maximum Real-Time Sample Rate (All Channels)	40 GSa/s
Standard Record Length	20 Mpts per channel (DSA variant standard)
Maximum Record Length (Optional)	Up to 1 Gpts per channel

Trigger System

Advanced Serial Triggering Modes	3-level trigger sequencing featuring InfiniiScan software trigger
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Measurements and Math

Jitter Analysis	EZJIT+ basic jitter and RJ/DJ separation (Standard)
Eye Diagram Analysis	Serial Data Analysis (SDA) real-time eye diagrams & clock recovery (Standard)
Serial Protocol Decoding	Supported via options (e.g., DDR 1, Serial Rapid IO, USB 2.0; >29 software applications available)
Signal Processing	Bandwidth / noise reduction software (Standard on DSA)

Display System	
Display Size	15 inch
Display Resolution	XGA (1024 x 768)
Touchscreen Capabilities	Standard
Connectivity and Interfaces	
LAN/Ethernet Port	10/100/1000Base-T Ethernet
Probing	
Compatible Probing Systems	InfiniiMax II (Interchangeable probe heads, RoHS compliant solder-in solutions)
Software & Analysis	
Included Advanced Software	Serial Data Analysis (SDA) and EZJIT Plus Jitter Analysis (standard on DSA models)
Operating System	Windows XP Pro or Windows 7 (dependent on manufacture date)
Inputs & Outputs	
Reference Clock Input	10 MHz
Reference Clock Output	10 MHz
Connectivity	
USB Connectivity	USB 2.0 host and device ports
Performance	
Timebase Range	5 ps/div to 20 s/div
Vertical Sensitivity	1 mV/div to 1 V/div
TECHNOLOGY	
Digital Storage Oscilloscope (DSO) / Digital Signal Analyzer (DSA)	
APPLICATIONS	
High-Speed Serial Design, Debugging, Signal Integrity Analysis, Jitter Analysis, Protocol Compliance	
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