

KEYSIGHT TECHNOLOGIES (AGILENT HP)

UXR0134A

The Keysight Technologies Infiniium UXR-Series UXR0134A is a high-performance real-time oscilloscope designed for high-speed digital design, optical research, and wideband RF applications. Featuring 4 channels, an analog bandwidth of 13 GHz, and a high-speed 10-bit hardware ADC, the UXR0134A delivers industry-leading signal integrity with an exceptionally low noise floor and ultra-low jitter performance. It operates on a Windows 10 platform powered by an Intel Xeon multi-core processor, providing deep analysis capabilities through standard and optional hardware/software integrations.

SPECIFICATIONS

General

Interfaces	1x 10GBase-T LAN, 1x 1000Base-T LAN, USB 3.0 (host and device), 2x DisplayPort
Display	15.4-inch capacitive touch screen, Full HD (1920 x 1080) resolution

Physical

Power Supply	100 to 240 VAC, 50/60 Hz, up to 1420 VA maximum
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	435 mm × 313 mm × 513 mm mm

Vertical System

Analog Bandwidth	13 GHz
Number of Channels	4
Hardware ADC Resolution	10-bit
Input Impedance	50 Ω
Input Coupling	DC
Input Connector Type	Ruggedized 3.5 mm male (AutoProbe III)
Vertical Sensitivity Range	1 mV/div to 1 V/div
DC Gain Accuracy	±1.5% of full scale
Bandwidth Limit Filters	1 GHz to 13 GHz in 1 GHz increments
Maximum Input Voltage	±5 V peak, CAT I
Channel-to-Channel Isolation	≥ 60 dB (DC to 13 GHz)

Horizontal System & Sampling

Maximum Real-Time Sample Rate	128 GSa/s per channel (4-channel operation)
Standard Memory Depth	200 Mpts per channel
Maximum Memory Depth Option	2 Gpts per channel

Trigger System

Trigger Sources	Channels 1 to 4, Auxiliary Input, AC Line
Trigger Coupling	DC, AC, LF Reject, HF Reject, Noise Reject
Trigger Jitter	< 100 fs rms
Supported Trigger Types	Edge, edge transition, glitch, runt, timeout, pattern, state, window, window transition, setup/hold, sequence

Acquisition Modes

Real-Time Acquisition	Supported
Segmented Memory Mode	Supported
Average Mode	Supported (1 to 65,536 averages)
High-Resolution Mode	Up to 16-bit resolution (user-selectable)
Envelope Mode	Supported

Signal Integrity

Intrinsic Jitter	< 25 fs rms
Jitter Measurement Floor	< 100 fs rms

Analysis & Measurement

Automatic Measurements	Over 50 standard measurements (Amplitude, Time, Frequency, Mixed)
Jitter Analysis Option	Keysight EZJit / EZJit Plus / EZJit Complete
Waveform Math Functions	Add, Subtract, Multiply, Divide, FFT, Integrate, Differentiate, Square Root, Absolute
FFT Window Types	Hanning, Rectangular, Hamming, Blackman-Harris, Flattop
MATLAB Integration	Supported
Protocol Decoding Packages	Supports PCIe, USB, DDR, MIPI, Ethernet, SATA, HDMI

Display & Interface

Display Size	15.4 inch
Display Resolution	1920 × 1080 (Full HD)
Touchscreen Technology	Capacitive multi-touch
Waveform Graticules	Grid, Single, Dual, Quad, Octal, 16 Grid, XY

Connectivity & I/O

Probe Interface	AutoProbe III (supports active probes up to 30 GHz)
Auxiliary Trigger Input	Yes
Reference Clock Input	10 MHz and 100 MHz
Reference Clock Output	10 MHz and 100 MHz
LAN Interfaces	1x 10GBase-T Ethernet, 1x 1000Base-T Ethernet
USB Host Ports	USB 3.0 (front and rear panels)
USB Device Port	USB 3.0 Type-B (rear panel)
External Display Outputs	2x DisplayPort
Calibration Output Signal	Yes (front panel)

Computer System

Operating System	Windows 10 IoT Enterprise 64-bit
Processor	Intel Xeon Multi-Core
System RAM	48 GB standard
Storage Drive	Removable 960 GB SSD
Removable Storage	Supported (removable solid-state drive)

Power & Environmental

Input Voltage Range	100 to 240 VAC
Input Line Frequency	50/60 Hz
Power Consumption	Up to 2000 W (maximum configuration)
Operating Temperature Range	5 °C to +40 °C
Storage Temperature Range	-40 °C to +70 °C
Operating Humidity	10% to 90% non-condensing

Compliance & Support

Calibration Cycle	1 Year (recommended)
Standard Warranty	3 Years
Safety Standards	IEC 61010-1, CAN/CSA-C22.2 No. 61010-1, UL 61010-1
Electromagnetic Compatibility	IEC 61326-1, EN 61326-1, CISPR 11 / EN 55011 Class A

Horizontal System

Timebase Stability	±50 ppb (0 °C to 50 °C, ambient)
Timebase Aging	±100 ppb per year
Sample Clock Jitter	25 fs rms (intrinsic)

System Options

Bandwidth Upgradeability	Upgrade-active options up to 110 GHz
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Performance

Rise/Fall Time (10% to 90%)	31.5 ps (typical)
Rise/Fall Time (20% to 80%)	21.5 ps (typical)
Effective Number of Bits (ENOB)	6.8 bits (typical, at 50 mV/div, 13 GHz)

Inputs & Outputs

External Reference Input Frequency	10 MHz / 100 MHz (auto-selected)
External Reference Output Frequency	10 MHz / 100 MHz (selectable)

Environmental

Maximum Operating Altitude	3,000 m (9,842 ft)
Maximum Non-Operating Altitude	15,300 m (50,200 ft)
Vibration (Operating)	0.21 g (rms), 5 Hz to 500 Hz
Vibration (Non-Operating)	2.09 g (rms), 5 Hz to 500 Hz
Shock (Non-Operating)	30 g, half-sine, 11 ms

Connectivity & Control

LXI Compliance	LXI Core 2011 Device Specification Version 1.4
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TECHNOLOGY

Digital Real-Time Oscilloscope

APPLICATIONS

High-speed digital design, optical modulation analysis, radar and wideband RF validation, coherent optical research

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