

KEYSIGHT TECHNOLOGIES (AGILENT HP)

EXR258A

The Keysight Technologies Infiniium EXR258A is a high-performance 8-channel real-time oscilloscope offering a 2.5 GHz analog bandwidth and 16 GSa/s sample rate across all channels. Built on a low-noise 10-bit ADC architecture with up to 16 bits of resolution in high-resolution mode, the EXR258A integrates seven instruments in one, featuring a 15.6-inch Full HD capacitive touchscreen and powerful Windows 10 IoT analysis software.

SPECIFICATIONS

General

Display	15.6-inch capacitive touchscreen, 1920 × 1080 (Full HD)
---------	---

Vertical System

Analog Input Channels	8
Analog Bandwidth (-3 dB)	2.5 GHz
Hardware ADC Resolution	10-bit
Vertical Sensitivity Range (50 Ω)	1 mV/div to 1 V/div
Vertical Sensitivity Range (1 MΩ)	1 mV/div to 10 V/div
Vertical Resolution (High-Resolution Mode)	Up to 16 bits

Horizontal System and Acquisition

Maximum Real-Time Sample Rate	16 GSa/s on all channels
Standard Record Length (Memory Depth)	100 Mpts per channel
Maximum Record Length (Memory Depth)	400 Mpts per channel (optional)
Acquisition Modes	Normal, Peak Detect, Averaging, High Resolution (up to 16-bit), Segmented
Waveform Update Rate	> 200,000 wfm/s

Trigger System

Trigger Modes	Auto, Normal, Single
Trigger Coupling	DC, AC, LF Reject, HF Reject, Noise Reject

Display and User Interface

Display Size and Type	15.6-inch capacitive touchscreen
Display Resolution	1920 × 1080 (Full HD)

Connectivity and Interfaces

LAN/Ethernet Port	1x RJ-45 Gigabit Ethernet
Reference Clock Input	10 MHz (BNC)
Reference Clock Output	10 MHz (BNC)

Built-in Function Generator (Optional)

Arbitrary Waveform Generator (AWG) Channels	1 channel (optional)
Maximum AWG Frequency	50 MHz (optional)

Software and Control

Internal Operating System	Windows 10 IoT Enterprise 64-bit
SCPI Command Compatibility	Supported

Waveform Measurements and Analysis

Built-in Frequency Counter	10-digit standard
----------------------------	-------------------

System Computer

System Storage	500 GB removable SSD
----------------	----------------------

Measurement & Analysis

Simultaneous Math Functions	Up to 16
Frequency Response Analysis (Bode Plot)	Supported (requires optional AWG or external source)

TECHNOLOGY

Real-Time Oscilloscope

APPLICATIONS

High-speed digital design, signal integrity, power integrity, and multi-channel embedded systems analysis

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