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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight EXR058A

Agilent Keysight EXR058A Infiniium EXR-Series Oscilloscope The Keysight EXR058A is an Infiniium EXR-Series oscilloscope with 500 MHz analog bandwidth on 8 channels and 16 GSa/s sample rate on every channel. OEM EXR data sheets list 10-bit ADC resolution (up to 16-bit high-resolution), 100 Mpts/ch standard memory, and optional 16 digital MSO channels. High-speed digital debug, multi-lane serial analysis, power integrity, and general-purpose high-bandwidth multi-channel capture. Sample Rate Real Time: 16 GSa/s all analog channels The Keysight EXR058A is an Infiniium EXR-Series oscilloscope with 500 MHz analog bandwidth on 8 channels and 16 GSa/s sample rate on every channel. OEM EXR data sheets list 10-bit ADC resolution (up to 16-bit high-resolution), 100 Mpts/ch standard memory, and optional 16 digital MSO channels. High-speed digital debug, multi-lane serial analysis, power integrity, and general-purpose high-bandwidth multi-channel capture. Sample Rate Real Time: 16 GSa/s all analog channels Vertical Resolution: 10 bits up to 16 bits with high resolution mode



MODEL

**Agilent / Keysight
EXR058A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EXR058A

LISTING

<https://aumictechlabs.com/products/exr058a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight EXR058A Infiniium EXR-Series Oscilloscope delivers 500 MHz bandwidth across all 8 analog channels with simultaneous 16 GSa/s sampling and 10-bit ADC resolution. This multi-function instrument integrates oscilloscope, logic analyzer, arbitrary waveform generator,

frequency response analyzer, counter, voltmeter, and protocol analyzer capabilities in a single platform. The 15.6" capacitive touch display provides intuitive signal analysis with over 50 voltage and timing measurements, FFT, eye diagrams, and clock recovery functions.

Technical Specifications

- Bandwidth: 500 MHz (all 8 analog channels)
- Analog Channels: 8
- Sampling Rate: 16 GSa/s (simultaneous all channels)
- Vertical Resolution: 10-bit ADC; upgradeable to 16 bits (high-resolution mode)
- System ENOB: Up to 9.0 with hardware filtering
- Noise Floor: 43 μ V minimum
- Standard Memory Depth: 100 Mpts per channel
- Maximum Memory Depth: 1.6 Gpts (upgradeable)
- Waveform Update Rate: >200,000 wfms/s
- Display: 15.6" capacitive color touch screen

Key Features

- Segmented memory and history mode acquisition
- Fault Hunter automatic evaluation against user-defined criteria
- Setup wizards for measurements, triggers, decodes, and eye diagrams
- Hardware-accelerated plotting
- 10-digit counter and 4-digit voltmeter (standard)
- Logic analyzer with 16 digital channels (upgradeable option)
- Arbitrary waveform generator to 50 MHz (option)
- Frequency response analyzer to 50 MHz (option)
- Protocol analyzer (option)

Upgradeability

The EXR058A supports bandwidth, channel count, memory depth, and integrated instrument upgrades without hardware replacement. Channel configurations scale from 4 to 8 analog channels; memory extends to 1.6 Gpts per channel; optional modules add waveform generation and protocol analysis capabilities.

Compatibility & Integration

Includes eight N2873A 500 MHz passive probes, N2873A probe accessory pouch, BNC calibration cable, keyboard, mouse, and Keysight I/O libraries suite. Factory calibration certificate (1 year) and complete documentation provided.

EXR058A Characteristics / Specifications

PARAMETER	VALUE
Model	EXR058A
Analog Bandwidth 50 Ohm	500 MHz
Analog Bandwidth 1 MOhm	500 MHz
Analog Channels	8
Sample Rate Real Time	16 GSa/s all analog channels
Sample Resolution	62.5 ps
Vertical Resolution	10 bits up to 16 bits with high resolution mode
ENOB Class	as high as 9.0
Standard Memory Depth	100 Mpts per channel
Typical Rise Time 10/	860 ps
Typical Rise Time 20/	620 ps
Real Time Update Rate	greater than 200000 waveforms per second
Digital Logic Channels Optional	16 dedicated MSO input
Display	15.6 inch touch full HD dual screen support
Input Impedance 50 Ohm	50 ohm plus or minus 3.5 percent
Input Impedance 1 MOhm	1 MOhm plus or minus 1 percent (14 pF typical)
Series Family	Infiniium EXR-Series
Brand Lineage	Agilent / Keysight
Form Factor	benchtop InfiniiumEye Diagram Speed Class: greater than 750000 UI/s
Bandwidth Upgrade Path	field upgradeable up to 6 GHz
Channel Upgrade Path	4 to 8 channel license path on 4ch models
Bandwidth	50 Ohm: 500 MHz
Rise Time	10/90: 860 ps

EXR058A Specifications

PARAMETER	VALUE
Key Features	500 MHz bandwidth on all analog channels
Technical Specifications	Model: EXR058A
Notes	From Keysight Infiniium EXR-Series data sheet model table for EXR058A.

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.

Specifications	
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PARAMETER	VALUE
Model	EXR058A
Analog Bandwidth 50 Ohm	500 MHz
Analog Bandwidth 1 MOhm	500 MHz
Analog Channels	8
Sample Rate Real Time	16 GSa/s all analog channels
Sample Resolution	62.5 ps
Vertical Resolution	10 bits up to 16 bits with high resolution mode
ENOB Class	as high as 9.0
Standard Memory Depth	100 Mpts per channel
Optional Memory 400 Mpts: 400 Mpts per channel option path	
Optional Flexible Memory: 1.6 Gpts combined flexible memory option path	
Specifications	
PARAMETER	VALUE
Typical Rise Time 10/90	860 ps
Typical Rise Time 20/80	620 ps
Real Time Update Rate	greater than 200000 waveforms per second
Digital Logic Channels Optional	16 dedicated MSO input
Display	15.6 inch touch full HD dual screen support
Input Impedance 50 Ohm	50 ohm plus or minus 3.5 percent
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Channel Upgrade Path	4 to 8 channel license path on 4ch models

Notes

From Keysight Infiniium EXR-Series data sheet model table for EXR058A.

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

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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.