

KEYSIGHT TECHNOLOGIES (AGILENT HP)

M8195A

Keysight Technologies M8195A is a high-speed arbitrary waveform generator (AWG) module for AXIe systems. It delivers up to 65 GSa/s sampling with 8-bit resolution for wideband RF/microwave and high-speed digital signal generation in modular test setups.

SPECIFICATIONS

General

Interfaces	AXIe (PCIe backplane via Keysight AXIe chassis); front-panel analog/clock/trigger I/O
Display	None (AXIe module)

Physical

Power Supply	Powered via AXIe chassis backplane
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Core Performance

Maximum Sample Rate (per channel)	65 GSa/s
Vertical Resolution	8 bits
Analog Bandwidth (–3 dB)	20 GHz

Analog Output and Spectral Performance

Output Impedance	50 Ω
Output Mode	Single-ended, 50 Ω

Clocking and Timing

Internal Sample Clock	Up to 65 GSa/s
Reference Clock Input Frequency	10 MHz

Triggering, Gating, and Markers

External Trigger Input	Supported (front panel)
Trigger Sources	Software, external

Connectivity and Interfaces

Form Factor	AXIe modular instrument
Compatible AXIe Chassis	Keysight M9502A, M9505A, M9514A
Host/Controller Interface	PCIe via AXIe chassis to host PC
Remote Control Interfaces	LAN to AXIe chassis controller; PCIe host link

Software and Programming

Soft Front Panel/GUI	Provided (Keysight M8195A application)
SCPI Command Set	Supported
Programming Language Support	SCPI over VISA (e.g., C/C++, Python, MATLAB, LabVIEW)
Supported Operating Systems	Windows (via Keysight IO Libraries Suite)

Modulation and Signal Generation

Arbitrary Waveform Support	User-defined waveforms
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Options and Accessories

Multi-Module Synchronization	Supported
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Physical and Power

Cooling Requirements	Chassis-provided forced-air cooling
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