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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9169E

Keysight M9169E PXI Switchable Input Programmable Step Attenuator DC to 50 GHz The Keysight M9169E is a 3-port PXI programmable step attenuator with switchable calibrator path, DC to 50 GHz, 0 to 70 dB in 2 dB steps, and 0.03 dB insertion-loss repeatability to 5 million cycles. Spectrum analyzer input conditioning, receiver sensitivity, adjacent-channel interference, RF path simulation. Switchable calibrator input path for amplitude accuracy The Keysight M9169E is a 3-port PXI programmable step attenuator with switchable calibrator path, DC to 50 GHz, 0 to 70 dB in 2 dB steps, and 0.03 dB insertion-loss repeatability to 5 million cycles. Spectrum analyzer input conditioning, receiver sensitivity, adjacent-channel interference, RF path simulation. Switchable calibrator input path for amplitude accuracy Broad 0 to 70 dB attenuation with 2 dB steps



MODEL

**Agilent / Keysight
M9169E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9169E

LISTING

<https://aumictechlabs.com/products/m9169e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight M9169E is a PXIe arbitrary waveform generator module designed for creation of complex, user-defined signals in demanding test environments. It delivers 1.25 GS/s sample rate, 16-bit vertical resolution, and 400 MHz analog output bandwidth across a single channel. The module integrates into PXIe chassis systems via the high-speed PCIe backplane, enabling automated test sequences with full remote control capabilities through Keysight software

drivers and standard programming environments. Technical Specifications Sample Rate: Up to 1.25 GS/s Vertical Resolution: 16 bits Output Channels: 1 Analog Output Bandwidth: 400 MHz Output Impedance: 50 Ohms Waveform Types: Sine, square, triangle, pulse, DC, and arbitrary waveforms Signal-to-Noise Ratio: High SNR with low distortion Jitter: Low output jitter for precise timing Output Connectors: Standard RF/coaxial connectors Key Features Onboard memory capacity for long, complex waveform storage Configurable output voltage range Wideband flatness across specified frequency range Modulation scheme support (firmware and configuration dependent) Low phase noise and signal distortion for clean generation PXIe form factor for multi-instrument system integration Typical Applications Aerospace and defense signal validation Communication systems testing Custom waveform development and verification High-frequency signal characterization Automated test sequences in integrated measurement systems Compatibility & Integration Module operates within standard PXIe chassis power envelope. Compatible with Keysight instrument control software, MATLAB, LabVIEW, C++, and IVI drivers. Control and data transfer occur via PXIe backplane interface.

M9169E Characteristics / Specifications

PARAMETER	VALUE
Model	M9169E
Instrument Type	PXI switchable input programmable step attenuator
Frequency Range	DC to 50 GHz
Port Count	3 ports with switchable calibrator path
Attenuation Range	0 to 70 dB
Attenuation Step Size	2 dB
Insertion Loss Repeatability	0.03 dB guaranteed
Operating Life Per Section	up to 5 million cycles
Form Factor	PXI hybrid compatible attenuator module
Primary Function	RF path attenuation and calibrator signal switching
Attenuation Accuracy Temperature Span	specified across 0 to 50 C operating frequency range literature
Use With Signal Analyzer	switch cal input into analyzer for amplitude accuracy improvement
Use Case Spectrum Analyzer Conditioning	input signal conditioning
Use Case Receiver Sensitivity	RF receiver sensitivity test
Use Case Adjacent Channel	adjacent channel interference testing
Use Case Path Simulation	RF signal path attenuation simulation
Switchable Path	calibrator signal path into analyzer input
Manufacturer Series	Keysight PXI step attenuator modules DC to 50 GHz family
Repeatability Life Spec	0.03 dB through operating life up to 5 million cycles per section
Control Interface	PXI modular instrument control
Frequency Upper Limit	50.0 GHz
Frequency Lower Limit	DC
Step Count Full Span	35 steps of 2 dB across 0 to 70 dB
Attenuation	Range: 0 to 70 dB

M9169E Specifications

PARAMETER	VALUE
Switchable calibrator input path for amplitude accuracy	0.03 dB insertion loss repeatability
Broad 0 to 70 dB attenuation with 2 dB steps	DC to 50 GHz coverage in PXI form factor
Technical Specifications	Model: M9169E

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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Notes	
Frequency, attenuation range/step, repeatability, cycle life, and port/path description from Keysight M9169E PXI Switchable-Input Programmable Step Attenuator technical overview 5992-0551 and OEM key specifications.	

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

Aumictech

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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.