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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9379A

Keysight M9379A PXIe RF Amplifier Module 50 MHz to 13.5 GHz The Keysight M9379A RF Amp Module includes two amplifiers, RF switches, and a programmable step attenuator designed to operate with M9485A and M980xA PXIe VNAs. OEM data sheet lists 50 MHz to 13.5 GHz coverage with typical +21 dBm saturated output and 25 dB forward gain at 3 GHz. Noise figure measurements with M980xA receivers, high-rejection filter dynamic range extension, synchronized S-parameter and NF paths. Dual amplifiers with programmable and fixed gain paths The Keysight M9379A RF Amp Module includes two amplifiers, RF switches, and a programmable step attenuator designed to operate with M9485A and M980xA PXIe VNAs. OEM data sheet lists 50 MHz to 13.5 GHz coverage with typical +21 dBm saturated output and 25 dB forward gain at 3 GHz. Noise figure measurements with M980xA receivers, high-rejection filter dynamic range extension, synchronized S-parameter and NF paths. Dual amplifiers with programmable and fixed gain paths Fast solid-state switch path control from VNA firmware



MODEL

**Agilent / Keysight
M9379A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9379A

LISTING

<https://aumictechlabs.com/products/m9379a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight M9379A is a single-slot PXIe RF amplifier module engineered to enhance receiver performance and expand dynamic range in Keysight's PXIe Vector Network Analyzers. It

integrates dual amplifiers, RF switches, and a programmable step attenuator to improve signal-to-noise ratio and enable advanced noise figure measurements across a wide RF bandwidth.

Technical Specifications

Frequency Range 50 MHz to 13.5 GHz

Amplifier Performance

Forward Gain: ≥ 25 dB at 3 GHz (typical)

Saturated Output Power: $\geq +21$ dBm at 3 GHz (typical)

Noise Figure: 5 dB at 3 GHz (typical)

Physical & Operating Conditions

Module Size: 1-slot PXIe format

Operating Temperature (controlled): 20°C to 30°C ambient; 33°C to 46°C module temperature

Operating Temperature (full range): 0°C to 55°C ambient; 10°C to 70°C module temperature

Key Features

- Dual-amplifier architecture with user-selectable signal paths
- Programmable pre-amplifier with variable gain via step attenuator or bypass path
- Fixed-gain booster amplifier for source enhancement
- Integrated RF switches for rapid path control
- Firmware-synchronized operation with M980xA VNA for coordinated S-parameter and noise figure measurements

Typical Applications

- Noise figure characterization of passive and active devices
- High-rejection filter measurements with enhanced dynamic range
- Low-level signal detection requiring improved receiver sensitivity
- Multi-port device characterization with simultaneous S-parameter and noise data

Compatibility & Integration

The M9379A operates with PXIe system controllers (PXI-1 embedded controllers are not supported) and is optimized for M9485A and M980xA series PXIe Vector Network Analyzers. When paired with the M980xA, internal switches are directly controlled by the analyzer's firmware, enabling synchronized fast measurements. With the M9485A and its direct-access receivers and high-power coupler, dynamic range extends for challenging filter measurements. The module requires a 2×8, 4×4, or 1×8 PXIe system slot link configuration and operates on supported operating systems with appropriate network analyzer software and device drivers.

M9379A Characteristics / Specifications

PARAMETER	VALUE
Model	M9379A
Instrument Type	PXIe RF amplifier module for PXI VNA
Frequency Range	50 MHz to 13.5 GHz
Amplifier Paths	dual amplifiers programmable gain and fixed gain
Saturated Output Power At Three Gigahertz Typical	+21 dBm
Forward Gain At Three Gigahertz Typical	25 dB
Noise Figure At Three Gigahertz Typical	5 dB
Amp1 Forward Gain Spec Fifty Megahertz To One Gigahertz	+19 dB
Amp1 Forward Gain Typical Fifty Megahertz To One Gigahertz	+27 dB
Amp1 Forward Gain Spec One To Three Gigahertz	+19 dB
Amp1 Forward Gain Typical One To Three Gigahertz	+25 dB
Amp1 Forward Gain Spec Three To Six Point Five Gigahertz	+16 dB
Amp1 Forward Gain Typical Three To Six Point Five Gigahertz	+22 dB
Amp1 Forward Gain Spec Six Point Five To Twelve Gigahertz	+7 dB
Amp1 Forward Gain Typical Six Point Five To Twelve Gigahertz	+18 dB
Amp1 Forward Gain Spec Twelve To Thirteen Point Five Gigahertz	+5 dB
Amp1 Forward Gain Typical Twelve To Thirteen Point Five Gigahertz	+14 dB
Amp1 Reverse Gain Fifty Megahertz To Thirteen Point Five Gigahertz	-40 dB
Path Control	built-in solid-state switches firmware controlled by M980xA

PARAMETER	VALUE
Programmable Attenuator	step attenuator on Amp1 amplifier path
Bypass Path	user selectable amplifier or bypass on programmable pre-amp
Compatible Vna Families	M9485A and M980xA PXIe VNA
Form Factor	1 PXIe slot
Warm Up Condition	45 minutes after amplifiers and switches turned on
Specification Ambient Temperature	25 C plus or minus 5 C
Module Temperature Spec Window	28 C to 42 C as reported by module
Primary Use Case	noise figure and high dynamic range S-parameter with PXI VNA

M9379A Specifications

PARAMETER	VALUE
Applications	Noise figure measurements with M980xA receivers, high-rejection filter dynamic range extension, synchronized S-parameter and NF paths.
Technical Specifications	Model: M9379A
Notes	Frequency, gain tables, saturated power, noise figure, and operating conditions from Keysight M9379A RF Amplifier data sheet 5992-1795.

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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Model	M9379A
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Specifications	
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Path Control	built-in solid-state switches firmware controlled by M980xA
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Notes

Frequency, gain tables, saturated power, noise figure, and operating conditions from Keysight M9379A RF Amplifier data sheet 5992-1795.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.