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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9405A

The Keysight M9405A is a 1-slot 3U PXIe RF/microwave amplifier providing plus 27 dB gain (Option F26 to 26.5 GHz) or plus 24 dB gain (Option F50 to 50 GHz). OEM M940xA optical-extender data sheet 5991-0383EN lists noise figure 7 dB at 26.5 GHz (F26) and 9 dB at 50 GHz (F50) for use with M9403A/M9404A optical links or as a standalone amplifier. Pre-amplification to improve noise figure, post-link gain to overcome optical conversion loss, and standalone PXIe microwave amplification. Pairs with M9403A transmitter and M9404A receiver Keysight M9405A PXIe RF Microwave Amplifier 300 kHz to 26.5 or 50 GHz The Keysight M9405A is a 1-slot 3U PXIe RF/microwave amplifier providing plus 27 dB gain (Option F26 to 26.5 GHz) or plus 24 dB gain (Option F50 to 50 GHz). OEM M940xA optical-extender data sheet 5991-0383EN lists noise figure 7 dB at 26.5 GHz (F26) and 9 dB at 50 GHz (F50) for use with M9403A/M9404A optical links or as a standalone amplifier. Pre-amplification to improve noise figure, post-link gain to overcome optical conversion loss, and standalone PXIe microwave amplification.

**MODEL****Agilent / Keysight
M9405A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****M9405A****LISTING**<https://aumictechlabs.com/products/m9405a-2/>

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NAICS 423690 • 811210 • 541380

This unit

The Keysight M9405A is a single-slot PXIe RF amplifier module designed for RF and wireless communication testing within automated test systems. It integrates into PXIe or hybrid chassis

and operates as either a standalone amplifier or as part of an optical signal distribution network using the M9403A and M9404A converters. The module delivers consistent gain and low noise performance across its operating frequency range, with flexible form factor options to match system requirements.

Technical Specifications

Frequency Coverage	Gain	Noise Figure
300 kHz to 26.5 GHz	+27 dB (Option F26)	7 dB @ 26.5 GHz (F26)
300 kHz to 50 GHz	+24 dB (Option F50)	9 dB @ 50 GHz (F50)

Maximum input power: +20 dBm

Form Factor & Thermal 1-slot, 3U or 1-slot, 1U PXIe module

Operating temperature range: 0 to 55 °C

Key Features

- Dual-option frequency coverage from sub-GHz through millimeter-wave bands
- Low-noise performance suitable for receiver-side signal conditioning
- Standalone or cascaded amplification in optical-extended test architectures
- Direct integration with M9403A/M9404A optical converters for distributed testing
- Flexible slot utilization in mixed PXIe/hybrid chassis environments

Typical Applications

- Pre-amplification in receiver signal chains to reduce system noise figure
- Post-optical conversion gain compensation in extended-distance RF distribution
- Modular RF signal conditioning within PXIe-based automated test equipment
- Multi-gigahertz wireless device characterization and production test

Compatibility & Integration The M9405A operates within PXIe and hybrid chassis such as the M9018A. It requires a PXI or PXI Express embedded controller or external PC with PCI-to-PXI interface adapter (M9048A Desktop Adaptor). Software support includes Keysight IO Libraries Suite, IVI-COM device drivers, and soft front panel. The module connects via standard RF connectors and supports 2×8, 4×4, or 1×4 PXIe system slot link configurations for host communication.

M9405A Characteristics / Specifications

PARAMETER	VALUE
Model	M9405A
Instrument Type	PXIe RF microwave amplifier
Form Factor	1 slot 3U PXIe
Frequency Range F	300 kHz to 26.5 GHz
Gain Option F	plus 27 dB
Noise Figure At 26p5 Ghz F	7 dB
Noise Figure At 50 Ghz F	9 dB
Related Transmitter	M9403A 2-slot PXIe RF to optical 1550 nm
Related Receiver	M9404A 1-slot PXIe optical to RF
Optical Path Distance Class	up to and beyond 1000 m (1.5 km class with M9403A/M9404A)
Wavelength On Link	1550 nm single mode
Software Requirement	none special
Use Modes	preamp or post-link or standalone
Family	M940xA optical extenders for instrumentation
Host Chassis	PXIe or hybrid
Applications Class	antenna ranges earth stations EMI chambers VNA port extension
Literature	5991-0383EN
Related Reflectometer	M9408A 300 kHz to 50 GHz
Related Usb Extender	M9406A M9407A USB 2.0 optical
Manufacturer	Keysight Agilent HP lineage PXIe

M9405A Specifications

PARAMETER	VALUE
Key Features	Plus 27 dB or plus 24 dB gain options
No special software required	Pairs with M9403A transmitter and M9404A receiver
Technical Specifications	Model: M9405A

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	
Specifications	
PARAMETER	VALUE
Model	M9405A
Instrument Type	PXIe RF microwave amplifier
Form Factor	1 slot 3U PXIe
Frequency Range F26	300 kHz to 26.5 GHz
Frequency Range F50	300 kHz to 50 GHz
Gain Option F26	plus 27 dB
Gain Option F50	plus 24 dB
Noise Figure At 26p5 Ghz F26	7 dB
Noise Figure At 50 Ghz F50	9 dB
Related Transmitter	M9403A 2-slot PXIe RF to optical 1550 nm
Related Receiver	M9404A 1-slot PXIe optical to RF
Optical Path Distance Class	up to and beyond 1000 m (1.5 km class with M9403A/M9404A)
Wavelength On Link	1550 nm single mode
Software Requirement	none special
Use Modes	preamp or post-link or standalone
Family	M940xA optical extenders for instrumentation
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Notes	
From Keysight M940xA PXIe Optical Extenders for Instrumentation data sheet 5991-0383EN M9405A section. Faceplate Option F26 versus F50 sets the frequency/gain/noise-figure column.	

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.