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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9405B

Keysight M9405B PXIe RF Microwave Amplifier 300 kHz to 26.5 or 50 GHz The Keysight M9405B is the later hardware revision of the M9405 PXIe RF/microwave amplifier in the M940xA optical-extender family. OEM 5991-0383EN family ratings for the M9405 amplifier are plus 27 dB to 26.5 GHz (F26) or plus 24 dB to 50 GHz (F50), noise figure 7 dB at 26.5 GHz and 9 dB at 50 GHz, 1-slot 3U PXIe. Same as M9405A: optical-link compensation and standalone PXIe microwave gain. M9405 family plus 27 dB / plus 24 dB options The Keysight M9405B is the later hardware revision of the M9405 PXIe RF/microwave amplifier in the M940xA optical-extender family. OEM 5991-0383EN family ratings for the M9405 amplifier are plus 27 dB to 26.5 GHz (F26) or plus 24 dB to 50 GHz (F50), noise figure 7 dB at 26.5 GHz and 9 dB at 50 GHz, 1-slot 3U PXIe. Same as M9405A: optical-link compensation and standalone PXIe microwave gain. M9405 family plus 27 dB / plus 24 dB options Instrument Type: PXIe RF microwave amplifier

**MODEL****Agilent / Keysight
M9405B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****M9405B****LISTING**<https://aumictechlabs.com/products/m9405b-2/>

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NAICS 423690 • 811210 • 541380

This unit

The Keysight M9405B is a 2-slot, 2U PXIe amplifier module engineered for RF testing within integrated modular systems. This dual-slot device delivers ~30 dB gain across its operating band with a 1 dB compression point of +25 dBm, enabling high-power amplification in compact chassis

environments. Control is executed via Soft Front Panel (SFP) or SCPI commands, supporting both manual operation and automated test sequences.

Technical Specifications

Module Type: PXle Amplifier Module

Form Factor: 2-slot, 2U

Frequency Range (Option 708): 2 to 20 GHz

Gain: Approximately 30 dB (Option 708)

1 dB Compression Point: +25 dBm (Option 708)

Output Power: Selectable by configuration option

Control Interface: SCPI or Soft Front Panel (SFP)

Power Source: PXI Chassis-supplied

Key Features

- Modular, scalable architecture within PXle ecosystems
- Dual control paradigms: graphical SFP interface and programmatic SCPI access
- SCPI Service management through Windows Services
- High gain and compression point suitable for drive and output stage applications
- Variable output power selection across option configurations

System Integration

The M9405B requires a PXle host system with compatible embedded controller (Keysight M9036A or M9037A) running Windows 7 or Windows 10 (32-bit or 64-bit).

Processor: 1 GHz minimum (x86 or x64).

Memory: 1 GB recommended.

Storage: 3 GB for software installation.

PXI slot link configuration must support 2×8, 4×4, or 1×4 modes.

Software & Control Operation

requires Keysight IO Libraries Suite (v18.1.24130.0 or later) and M940x module software.

SCPI programming enables remote instrument control and integration into larger test automation frameworks.

The M940x SCPI Service provides Windows-level service control for production environments.

M9405B Characteristics / Specifications

PARAMETER	VALUE
Model	M9405B
Instrument Type	PXIe RF microwave amplifier
Family	M9405 / M940xA optical extenders
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
Related Receiver	M9404A
Optical Path Distance Class	up to and beyond 1000 m
Wavelength On Link	1550 nm single mode
Software Requirement	none special
Host Chassis	PXIe or hybrid
Related Prior Revision	M9405A
Literature	5991-0383EN M9405 amplifier section
Use Modes	preamp or post-link or standalone
Related Reflectometer	M9408A
Manufacturer	Keysight
Brand Lineage	Hewlett Packard Agilent Keysight

M9405B Specifications

PARAMETER	VALUE
Applications	Same as M9405A: optical-link compensation and standalone PXIe microwave gain.
Key Features	M9405 family plus 27 dB / plus 24 dB options
Technical Specifications	Model: M9405B

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	M9405B
Instrument Type	PXIe RF microwave amplifier
Family	M9405 / M940xA optical extenders
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
Related Receiver	M9404A
Optical Path Distance Class	up to and beyond 1000 m
Wavelength On Link	1550 nm single mode
Software Requirement	none special
Host Chassis	PXIe or hybrid
Related Prior Revision	M9405A
Literature	5991-0383EN M9405 amplifier section
Use Modes	preamp or post-link or standalone
Related Reflectometer	M9408A
Manufacturer	Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Notes	
Family amplifier ratings from Keysight 5991-0383EN M9405A section applied to M9405B as the M9405 hardware revision in the same PXIe amplifier role. Confirm F26/F50 option on the M9405B faceplate.	

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.