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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9817AS

Keysight M9817AS PXIe Vector Component Analyzer 100 kHz to 44 GHz The Keysight M9817AS isaPXIe vector component analyzer bundle covering 100 kHz to 44 GHz. OEM M981xAS configuration guide and datasheet list 2.4 mm female test ports, the M9817A receiver module in the bundle, 50 ohm nominal impedance, and warranted specs after 60 minutes at 25 C plus or minus 5 C with module temperature 37 to 50 C. Multiport FEM and antenna-array characterization combining S-parameters with modulated EVM/ACP inascalable PXI chassis. The Keysight M9817AS isaPXIe vector component analyzer bundle covering 100 kHz to 44 GHz. OEM M981xAS configuration guide and datasheet list 2.4 mm female test ports, the M9817A receiver module in the bundle, 50 ohm nominal impedance, and warranted specs after 60 minutes at 25 C plus or minus 5 C with module temperature 37 to 50 C. Multiport FEM and antenna-array characterization combining S-parameters with modulated EVM/ACP inascalable PXI chassis. Synchronous multiport measurements with multiport error correction



MODEL

**Agilent / Keysight
M9817AS**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9817AS

LISTING

<https://aumictechlabs.com/products/m9817as-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight M9817AS is a PXIe Vector Component Analyzer that delivers wideband signal analysis from 100 kHz to 44 GHz. This modular instrument combines a 1 GHz instantaneous bandwidth with 140 dB dynamic range and -144 dBm DANL at 1 GHz, enabling precise

characterization of complex RF signals. The dual built-in ports support flexible measurement configurations within integrated PXIe test systems.

Technical Specifications

Frequency Performance

Frequency Range: 100 kHz to 44 GHz

Instantaneous Bandwidth: 1 GHz

Frequency Resolution: 1 kHz

Frequency Accuracy: 10 kHz

Signal Measurement Capability

Dynamic Range: 140 dB

DANL @ 1 GHz: -144 dBm

Noise Figure: 3.2 dB (typical)

Gain: 20 dB (typical)

Maximum Output Power: 10 dBm

Attenuation Control

Programmable Attenuation Range: 120 dB

Attenuation Step: 0.5 dB

Key Features

PXIe form factor for modular system integration

Two RF ports for signal input and measurement

Programmable gain and attenuation control with 0.5 dB resolution

Extended frequency coverage spanning microwave to millimeter-wave bands

High sensitivity measurement capability across the frequency range

Typical Applications

Aerospace and defense signal characterization

Wireless communications testing and validation

Signal intelligence (SIGINT) analysis

Component and subsystem RF measurements

Automated test system integration

Compatibility & Integration

PXI-compliant architecture enables seamless integration into multi-instrument test platforms. Compatible with PXIe hybrid and standard PXIe chassis configurations. Supported by S95025B Basic Pulsed-RF Measurement software drivers.

M9817AS Characteristics / Specifications

PARAMETER	VALUE
Model	M9817AS
Instrument Type	PXIe vector component analyzer
Frequency Range	100 kHz to 44 GHz
Test Port Connector	2.4 mm female
System Impedance	50 ohm nominal
Receiver Module In Bundle	M9817A
Spec Temperature	25 C plus or minus 5 C
Module Temperature Window	37 C to 50 C
Warmup Time	60 minutes with VNA application running
Surrounding Temperature Before Turn On	minus 10 C to 55 C for 60 minutes
Damage Input Level	plus 27 dBm or plus or minus 35 VDC warranted
Noise Floor Spec 10 MHz To 50 MHz	minus 127 dBm in 10 Hz IF BW
Noise Floor Spec 50 MHz To 200 MHz	minus 130 dBm
Noise Floor Spec 200 MHz To 3 GHz	minus 130 dBm
Noise Floor Spec 3 GHz To 6.5 GHz	minus 130 dBm
Noise Floor Spec 30 GHz To 45 GHz	minus 120 dBm
Test Port Input Power 1 MHz To 17 GHz	plus 10 dBm class table
Test Port Input Power 30 GHz To 45 GHz	plus 2 dBm class table
External Reference Frequency	10 MHz
Mechanical Package	PXIe
Ports Option 2	2 port
Dra One Port Option	491
Dra Both Ports Option	691
Family Peers	M9815AS 26.5 GHz M9816AS 32 GHz M9818AS 53 GHz

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.

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Noise Floor Spec 200 MHz To 3 GHz: minus 130 dBm	
Noise Floor Spec 3 GHz To 6.5 GHz: minus 130 dBm	
Noise Floor Spec 30 GHz To 45 GHz: minus 120 dBm	
Test Port Input Power 1 MHz To 17 GHz: plus 10 dBm class table	
Test Port Input Power 30 GHz To 45 GHz: plus 2 dBm class table	
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PARAMETER	VALUE
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Mechanical Package	PXIe
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Notes

From Keysight M981xAS Series PXIe Vector Component Analyzer datasheet and configuration guide model column M9817AS. Corrected system performance depends on the paired M980xA VNA and calibration.

Ordering Information

OPTION	DESCRIPTION
Option 090	and S95090B

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.