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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9370A

Keysight M9370A PXIe Vector Network Analyzer 300 kHz to 4 GHz The Keysight M9370A is a one-slot PXIe full two-port VNA covering 300 kHz to 4 GHz. OEM M937xA technical specifications list independent two-port analyzers with multiport synchronous measurements, dynamic range greater than 114 dB class performance in the family, and electronic calibration support. Wireless manufacturing test, handset component test, aerospace and defense depot and manufacturing VNA measurements. Fully synchronous multiport measurements when multiple modules are combined The Keysight M9370A is a one-slot PXIe full two-port VNA covering 300 kHz to 4 GHz. OEM M937xA technical specifications list independent two-port analyzers with multiport synchronous measurements, dynamic range greater than 114 dB class performance in the family, and electronic calibration support. Wireless manufacturing test, handset component test, aerospace and defense depot and manufacturing VNA measurements. Fully synchronous multiport measurements when multiple modules are combined ECal support for fast accurate calibrations

**MODEL****Agilent / Keysight
M9370A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****M9370A****LISTING**<https://aumictechlabs.com/products/m9370a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight M9370A is a PXIe Vector Signal Generator engineered for RF and microwave test applications spanning wireless communication, aerospace, and defense sectors. This single-slot

PXIe module delivers flexible frequency coverage from 1 MHz to 6 GHz with output power from 0 to 10 dBm, integrating into standard PXIe chassis for scalable, modular test system deployment.

Technical Specifications

Frequency and Power Frequency range: 1 MHz to 6 GHz
Output power: 0 to 10 dBm Power sweep range: -40 to 7 dBm Noise floor: -108 to -98 dBm

Performance Metrics Dynamic range: 95 to 122 dB (up to 115 dB) Harmonics: -10 to -6 dBc IF bandwidth: 10 Hz Frequency resolution: 1 to 2 Hz Measurement speed: 24 msec Sweep speed: 14 ms Directivity: 31 to 52 dB Physical Form factor: Single PXIe slot module Dimensions: 176 × 48 × 333 mm Weight: 1.9 kg Port impedance: 50 Ohms Connectors: 3.5 mm, SMA, SMB (male and female) Environmental Operating temperature: 0 to 55 °C Specification compliance: 25 °C ±5 °C ambient; 33 to 46 °C module temperature

Key Features PXI compliant architecture supports PXIe and Hybrid slot integration Multiport and multi-site measurement capability through module cascading Single-slot density optimizes chassis real estate Keysight soft front panels provide guided module configuration

Typical Applications Wireless communication component testing Aerospace and defense RF validation EMC emissions and immunity evaluations Automated test system integration Passive component characterization Wireless component manufacturing

Compatibility & Integration Requires PXIe chassis with slot blockers and EMC filler panels for optimal operating temperature control. Supplied with comprehensive module drivers, documentation, examples, and software tools. Keysight Connection Expert facilitates driver identification and system setup.

M9370A Characteristics / Specifications

PARAMETER	VALUE
Model	M9370A
Instrument Type	PXIe two port vector network analyzer
Frequency Range	300 kHz to 4 GHz Frequency Resolution Three Hundred Kilohertz To Two Point Five Gigahertz: 1 Hz
Frequency Resolution Above Two Point Five To Five Gigahertz	2 Hz
Frequency Resolution Above Five To Ten Gigahertz	3 Hz
Frequency Reference Accuracy	plus or minus 1 ppm typical
Frequency Reference Aging	less than 3.5 ppm per year typical
Frequency Reference Temperature Stability	plus or minus 1 ppm over 0 to 55 C typical
System Impedance	50 ohm nominal
Noise Floor Ten To Two Hundred Fifty Megahertz	-98 dBm specification at 10 Hz IF bandwidth
Noise Floor Two Hundred Fifty Megahertz To Four Gigahertz	-108 dBm specification at 10 Hz IF bandwidth
Dynamic Range Spec Two Hundred Fifty Megahertz To Four Gigahertz	115 dB
Dynamic Range Typical Two Hundred Fifty Megahertz To Four Gigahertz	122 dB
Effective Dynamic Range Characteristic One To Four Gigahertz	115 dB Maximum Output Power Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +7 dBm specification Maximum Output Power Typical Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +10 dBm
Preset Nominal Power	-5 dBm all models
Power Range Two Hundred Fifty Megahertz To Six Point Five Gigahertz	+7 to -40 dBm
Trace Noise Magnitude Target	less than 0.003 dB family headline
Sweep Speed Family Headline	18 to 33 ms across 401 points

PARAMETER	VALUE
Stability Up To Four Gigahertz	0.005 dB perCCorrected Directivity Two Megahertz To One Gigahertz Ecal: 52 dB with N4691B
Corrected Source Match Two Megahertz To One Gigahertz Ecal	47 dB with N4691B
Corrected Load Match Two Megahertz To One Gigahertz Ecal	47 dB with N4691B
Form Factor	1 PXIe slot compatible with PXI Hybrid slots
Module Width	19.9 mm (0.784 in)
Module Height	128.4 mm (5.06 in)
Module Depth	212.6 mm (8.37 in)
Module Weight	0.59 kg (1.3 lbs)
Maximum Power Dissipation	23 W
Ports	2 fully independent synchronous ports
Max Modules Per Chassis Multiport	up to 16 modules
Bandwidth	Noise Floor Two Hundred Fifty Megahertz To Four Gigahertz: -108 dBm specification at 10 Hz IF bandwidth
Maximum output power	Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +7 dBm specification

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 list independent two-port analyzers with multiport synchronous measurements, dynamic range greater than 114 dB class performance in the family, and electronic calibration support.

Applications

Wireless manufacturing test, handset component test, aerospace and defense depot and manufacturing VNA measurements.

Key Features

Full two-port VNA in a single PXIe slot

Fully synchronous multiport measurements when multiple modules are combined

ECal support for fast accurate calibrations

IVI COM IVICLabVIEW and MATLAB drivers

Technical Specifications

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Instrument Type	PXIe two port vector network analyzer
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Frequency Resolution Three Hundred Kilohertz To Two Point Five Gigahertz: 1 Hz

Frequency Resolution Above Two Point Five To Five Gigahertz: 2 Hz

Specifications

PARAMETER	VALUE
Frequency Resolution Above Five To Ten Gigahertz	3 Hz
Frequency Reference Accuracy	plus or minus 1 ppm typical
Frequency Reference Aging	less than 3.5 ppm per year typical
Frequency Reference Temperature Stability	plus or minus 1 ppm over 0 to 55 C typical
System Impedance	50 ohm nominal

Noise Floor Ten To Two Hundred Fifty Megahertz: -98 dBm specification at 10 Hz IF bandwidth

Noise Floor Two Hundred Fifty Megahertz To Four Gigahertz: -108 dBm specification at 10 Hz IF bandwidth

Dynamic Range Spec Two Hundred Fifty Megahertz To Four Gigahertz: 115 dB

Dynamic Range Typical Two Hundred Fifty Megahertz To Four Gigahertz: 122 dB

Effective Dynamic Range Characteristic One To Four Gigahertz: 115 dB

Maximum Output Power Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +7 dBm specification

Maximum Output Power Typical Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +10 dBm

Preset Nominal Power: -5 dBm all models

Power Range Two Hundred Fifty Megahertz To Six Point Five Gigahertz: +7 to -40 dBm

Specifications

PARAMETER	VALUE
Trace Noise Magnitude Target	less than 0.003 dB family headline
Sweep Speed Family Headline	18 to 33 ms across 401 points
Stability Up To Four Gigahertz	0.005 dB perCCorrected Directivity Two Megahertz To One Gigahertz Ecal: 52 dB with N4691B

Corrected Source Match Two Megahertz To One Gigahertz Ecal: 47 dB with N4691B
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Module Weight	0.59 kg (1.3 lbs)
Maximum Power Dissipation	23 W
Ports	2 fully independent synchronous ports
Max Modules Per Chassis Multiport	up to 16 modules

Notes
Frequency, noise floor, dynamic range, power, corrected terms, size, weight, and dissipation from Keysight M937xA PXIe Vector Network Analyzer technical specifications (M9370A row 300 kHz to 4 GHz).

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.