Keysight Technologies
PXIe Vector Network Analyzer M937xA

Product Fact Sheet

Drive down the size of test

When you need to measure basic S-parameters, the right mix of speed, performance and footprint gives you an edge. Sharpen your edge with the Keysight PXI vector network analyzer (VNA), ideal for:

– Wireless manufacturing test
– Handset component test
– Aerospace/defense depot maintenance level testing
– Aerospace/defense manufacturing test

Get more VNA in less space

The Keysight PXI VNA is a full two-port VNA that fits in just one slot. The PXI VNA also performs fast, accurate measurements and reduces your cost-of-test by letting you simultaneously characterize many devices — two-port or multiport — using a single PXI chassis.

It offers the best PXI VNA performance on key specifications such as dynamic range, measurement speed, and trace noise. Each module is a completely independent two-port network analyzer and up to 16 modules can be added to a chassis for multi-site and multiport applications. All ports are fully synchronous so multiple ports can be measured simultaneously and multiport error correction applied.

Main features and benefits

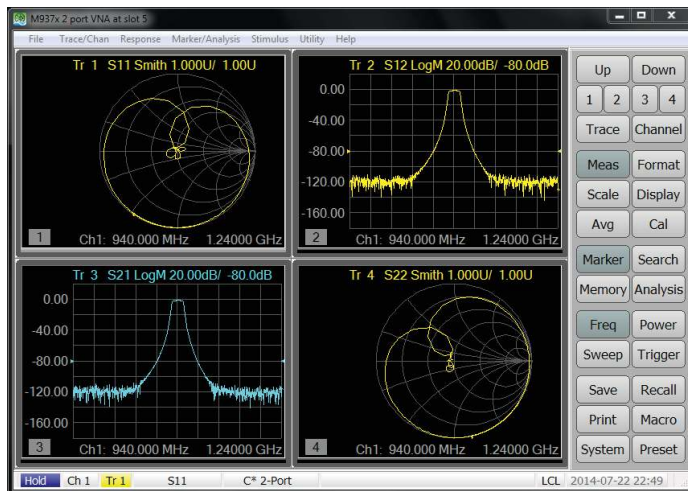| Product features	Your benefit
Choice of six frequency ranges up to 26.5 GHz (widest currently available)	Pay for only the frequency range you need
Best PXI VNA speed, dynamic range, trace noise and stability	Improve accuracy, yield and margins
Full 2-port S-parameters in a single-slot PXI	Have more slots available in your PXI chassis
Trusted Keysight measurement science and calibration	Get measurements you can count on
Electronic calibration (eCal) control via USB interface	Perform fast, easy, and accurate calibrations
Cascade multiple modules to address multiport applications	Test with full N-port correction capability
Simply add modules for multi-site applications	Test with multiple independent VNAs
Cost-effective VNA capability	Achieve lower pricing as compared to other PXI VNAs

Specifications and characteristics[1]

Hardware	Specifications
Frequency range	300 kHz to 4, 6.5, 9, 14, 20, 26.5 GHz
Number of ports	2 N ports w/multiple modules
Architecture	Full 2-port, true four-receiver
Dynamic range	> 114 dB at 9 GHz, > 110 dB at 20 GHz
Trace noise	< 0.003 dB
Stability	±0.005 dB/°C at 4 GHz, ±0.020 dB/°C at 26.5 GHz
Sweep speed	18 msec across 401 points
Max leveled power	up to +7 dBm
Power range	+7 to -40 dBm; 0.01 dB resolution
Measurement points	100,001
Size	One slot
Chassis slot compatibility	PXIe, Hybrid

1. For a complete set of specifications, see the M937xA data sheet, literature number M9370-90002.

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Software information

The PXI VNA includes instrument drivers, documentation, examples and software tools to help you quickly develop test systems in your application development environment of choice.

Operating systems	Microsoft Windows Vista SP1 and SP2 (32/64-bit) Microsoft Windows 7 (32/64-bit)
Standard compliant drivers	IVI-COM, IVI-C, LabVIEW, MATLAB
Application development environments (ADE)	Visual Studio (C/C++, C#, VB.NET), LabVIEW, LabWindows/CVI, MATLAB, VEE
Keysight Command Expert	Instrument control for SCPI or IVI-COM drivers
Keysight IO libraries (version 16.3.16603.3 or newer)	Includes: VISA libraries, Keysight Connection Expert, IO Monitor
Multiple programmatic interfaces	Easy integration into test environments and reduced development time
PNA look and feel	Same user interface and SCPI programming commands
Calibrated core exchange strategy	Fast repair and turnaround time

The PXI VNA interface guides test engineers using a similar look and feel as Keysight's popular PNA family of network analyzers.

Ordering Information

Model	Description
M9370A	300 kHz to 4 GHz
M9371A	300 kHz to 6.5 GHz
M9372A	300 kHz to 9 GHz
M9373A	300 kHz to 14 GHz
M9374A	300 kHz to 20 GHz
M9375A	300 kHz to 26.5 GHz
Product Options	
010	Time domain
551	N-port calibrated measurement
102	Additional VNA features and capabilities — Fixture simulator — Manual and automated port extend — Equation editor
897	Built-in performance test software for inclusive calibration, perpetual license
898	Built-in performance test software for standards compliant calibration, perpetual license
Accessories	
Y1242A	Multiport cable kit
Y1281A	Accessory and tool kit — Pull tool for SMB connectors — Custom socket for 3.5/SMA connector nuts
M9018A	PXIe 18-Slot Chassis
M9037A	PXIe High Performance Embedded Controller
Calibration	Electronic and mechanical kits available

www.keysight.com
www.keysight.com/find/pxivna
USA: (800) 829-4444

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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