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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N5253E3 2-port vector network analyzer (VNA) system

Port Count Standard: 2-port E-band (pair of TxRx extenders); two systems for 4-port Adapters Included: four 11904C 2.4 mm male to 2.92 mm female Four Port Add Ons: Y1701A multiple USB instruments kit and S97551B multiple-instruments measurements Bundle contents from N5252A/N5253E user's guide Table 4 (N5253E3). Performance from Table 5 shared by N5252A and N5253E1/E2/E3. Adapters Included: four 11904C 2.4 mm male to 2.92 mm female Four Port Add Ons: Y1701A multiple USB instruments kit and S97551B multiple-instruments measurements Bundle contents from N5252A/N5253E user's guide Table 4 (N5253E3). Performance from Table 5 shared by N5252A and N5253E1/E2/E3.



MODEL

**Agilent / Keysight
N5253E3**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5253E3

LISTING

<https://aumictechlabs.com/products/n5253e3-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5253E3 is a network analyzer that delivers exceptional performance for complex RF and microwave measurements. With its advanced features and wide frequency coverage, it enables engineers to thoroughly analyze and optimize their designs. Its superior

accuracy and reliability make it an indispensable tool for ensuring the quality and performance of critical components and systems.

N5253E3 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	E-band compact vector network analyzer bundle
Series Family	Keysight N5252A / N5253E
Frequency Range	60 to 90 GHz
Start Frequency Unspecified	start can be set as low as 55 GHz (performance not specified)
Waveguide Band	WR12
Test Port Interface	WR-12 IEEE 1785-2a compatible with UG-387/UM
Dynamic Range Minimum	100 dB at 10 Hz IF bandwidth (S12, S21)
Dynamic Range Typical	110 dB at 10 Hz IF bandwidth
Test Port Power Minimum	plus 10 dBm
Test Port Power Typical	plus 13 dBm
Magnitude Stability Typical	0.15 dB typical (S11, S22)
Phase Stability Typical	2 deg typical (S11, S22)
If Bandwidth For Dr Spec	10 Hz
Spec Temperature	23 C plus or minus 5 C
Warm Up	60 minutes after turn-on
Extenders	N5252AW12 Option 201 (N5252-80002) pair of TxRx VNAX modules with 1.2 m cables
Calibration Kit	N5262AC12 WR12 60-90 GHz
Cal Kit Contents	2 loads, 2 shorts, 1 quarter-wave shim, 1 USB drive, 1 two-inch section, 2 ball drivers
MmWave Software	S97560B operation with N5252AW12 extenders
Time Domain Application	optional application 010
Fixture Removal Application	optional application 007
N Port Calibration	included (551)
Frequency Offset Mode	not available on these bundles
Host Computer	laptop or tower PC not provided

PARAMETER	VALUE
Documentation	Keysight N5252A and N5253E E-Band VNA Systems User's Guide 9018-04772
Model	N5253E3
Host Vna	P5028A-400, 100 kHz to 53 GHz, 4-port
Port Count Standard	2-port E-band (pair of TxRx extenders); two systems for 4-port
Adapters Included	four 11904C 2.4 mm male to 2.92 mm female
Four Port Add Ons	Y1701A multiple USB instruments kit and S97551B multiple-instruments measurements

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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Notes

Bundle contents from N5252A/N5253E user's guide Table 4 (N5253E3). Performance from Table 5 shared by N5252A and N5253E1/E2/E3.

Ordering Information

OPTION	DESCRIPTION
Option 201	(N5252-80002) pair of TxRx VNAX modules with 1.2 m cables

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.