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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N5253E2 2-Port E-Band Compact VNA System

Agilent Keysight N5253E2 E-Band Compact VNA Bundle 60 to 90 GHz The Keysight N5253E2 is a 2-port-only E-band Streamline USB VNA bundle pairing a P5004A 20 GHz 2-port analyzer with a P5008A 53 GHz 2-port analyzer and N5252AW12 WR12 extenders. OEM N5252A/N5253E user's guide Table 5 lists the same 60-90 GHz, 100/110 dB dynamic range at 10 Hz IFBW, and plus 10/13 dBm test-port power as the other N5253E bundles. Two-port E-band (WR12) S-parameters from 60 to 90 GHz when a mixed 20 GHz plus 53 GHz Streamline USB VNA pair is the host. The Keysight N5253E2 is a 2-port-only E-band Streamline USB VNA bundle pairing a P5004A 20 GHz 2-port analyzer with a P5008A 53 GHz 2-port analyzer and N5252AW12 WR12 extenders. OEM N5252A/N5253E user's guide Table 5 lists the same 60-90 GHz, 100/110 dB dynamic range at 10 Hz IFBW, and plus 10/13 dBm test-port power as the other N5253E bundles. Two-port E-band (WR12) S-parameters from 60 to 90 GHz when a mixed 20 GHz plus 53 GHz Streamline USB VNA pair is the host. 2-port-only E-band bundle (cannot be doubled to 4-port)



MODEL

**Agilent / Keysight
N5253E2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5253E2

LISTING

<https://aumictechlabs.com/products/n5253e2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5253E2 is a network analyzer that offers performance for demanding measurement tasks. Its superior dynamic range and low trace noise ensure accurate and reliable results. Equipped with a user-friendly interface and powerful data analysis tools, the N5253E2 streamlines the testing process and enhances productivity. This network analyzer is an essential instrument for engineers and scientists seeking to optimize the performance of their RF and microwave designs.

N5253E2 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	N5253E2
Host Vna Low Band	P5004A-200, 9 kHz to 20 GHz, 2-port
Host Vna High Band	P5008A-200, 100 kHz to 53 GHz, 2-port
Port Count Standard	2-port E-band only
Adapters Included	two 11904C 2.4 mm male to 2.92 mm female
Multi Instrument Kit	Y1701A
Multi Module Software	S97551B

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 3 (N5253E2). Performance from Table 5. N5253E2 cannot be combined into a 4-port E-band system.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.