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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ZVB8 300KHz - 8GHz Vector Network Analyzer

Rohde & Schwarz ZVB8 Vector Network Analyzer 300 kHz to 8 GHz The R&S ZVB8 is a compact two- or four-port vector network analyzer covering 300 kHz to 8 GHz with N-female 50 ohm test ports. Order numbers 1145.1010.08 (2-port) and 1145.1010.10 (4-port). It is intended for passive and active devices, including balanced / mixed-mode work on four-port units.

Dynamic range exceeds 123 dB in mid-band; output power reaches +13 dBm (typically +15 dBm). Measurement time is less than 4.5 μ s per point. The R&S ZVB8 is a compact two- or four-port vector network analyzer covering 300 kHz to 8 GHz with N-female 50 ohm test ports.

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MODEL

Rohde & Schwarz ZVB8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZVB8

LISTING

<https://aumictechlabs.com/products/zvb8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz ZVB8 is a 2- or 4-port vector network analyzer operating from 300 kHz to 8 GHz with 50 Ω impedance. It delivers dynamic range exceeding 120 dB across most of its operating band and provides output power from +13 dBm to -123 dBm with >50 dB sweep

range. The instrument supports parallel measurements via dual-generator architecture, enabling simultaneous excitation of two test ports - critical for efficient multiport and balanced measurements on SAW filters, duplex filters, and antenna switching modules. Measurement throughput reaches sub-5 microsecond per point performance, while frequency resolution of 1 Hz and measurement bandwidth from 1 Hz to 500 kHz support high-fidelity characterization. Port configurations accommodate 2 to 20,001 measurement points with 0.01 dB output resolution. Compact design and low weight combine with intelligent software to optimize production sequences and handle large measured-data volumes typical of complex RF assessments.

Features & description

From manufacturer datasheet

Features

- 2 or 4 ports; two internal sources on four-port units
- Optional generator step attenuators extend the lower power limit by 70 dB
- Optional direct generator/receiver access (B16)
- OCXO B4; universal interface B14
- Overrange to 150 kHz unspecified, without factory calibration

Applications

- S-parameter characterization of filters, amplifiers, and cables to 8 GHz
- Balanced and multiport measurements (4-port models)
- Mixer measurements using two internal sources (4-port)
- Production ATE with fast traces and LAN / IEC remote control
- Time-domain and fixture work with optional software

ZVB8 Characteristics / Specifications

PARAMETER	VALUE
Model	ZVB8
Manufacturer	Rohde & Schwarz
Instrument Type	Vector network analyzer
Alias	ZVB 8; R&S ZVB8
Order Number Two Port	1145.1010.08
Order Number Four Port	1145.1010.10
Frequency Range	300 kHz to 8 GHz
Frequency Resolution	1 Hz
System Impedance	50 ohm
Test Port Connector	N female
Number of Test Ports	2 or 4
Measurement Bandwidths	1 Hz to 500 kHz
Measurement Points	2 to 20001
Measurement Time per Point	less than 4.5 μ s
Dynamic Range 300 kHz to 5 MHz	greater than 80 dB, typ. 100 dB
Dynamic Range 5 MHz to 100 MHz	greater than 100 dB, typ. 120 dB
Dynamic Range 100 MHz to 500 MHz	greater than 120 dB, typ. 130 dB (4-port path)
Dynamic Range 500 MHz to 4 GHz	greater than 123 dB, typ. 130 dB (4-port path)
Dynamic Range 4 GHz to 7 GHz	greater than 120 dB, typ. 130 dB (4-port)
Dynamic Range 7 GHz to 7.5 GHz	greater than 115 dB, typ. 125 dB (4-port)
Dynamic Range 7.5 GHz to 8 GHz	greater than 108 dB, typ. 125 dB (4-port)
Power Range 50 MHz to 4 GHz	minus 40 dBm to +13 dBm, typ. minus 45 dBm to +15 dBm
Power Range 4 GHz to 7 GHz	minus 40 dBm to +10 dBm, typ. minus 45 dBm to +13 dBm
Power Range 7 GHz to 8 GHz	minus 40 dBm to +8 dBm, typ. to +12 dBm
Power Sweep Range	greater than 50 dB

PARAMETER	VALUE
Test Port Match 300 kHz to 7 GHz	greater than 16 dB
Test Port Match 7 GHz to 8 GHz	greater than 14 dB
Step Attenuator Extension	lower power limit extended 70 dB; upper limit reduced 8 dB
OCXO Option	ZVB8-B4 Notes Specs from the R&S ZVB Vector Network Analyzer data sheet. Confirm 2-port versus 4-port, B16 direct access, and generator/receiver step attenuators on the configuration label.

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	
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Power Sweep Range	greater than 50 dB

Test Port Match 300 kHz to 7 GHz: greater than 16 dB

Test Port Match 7 GHz to 8 GHz: greater than 14 dB

Step Attenuator Extension: lower power limit extended 70 dB; upper limit reduced 8 dB

OCXO Option: ZVB8-B4

Notes

Specs from the R&S ZVB Vector Network Analyzer data sheet. Confirm 2-port versus 4-port, B16 direct access, and generator/receiver step attenuators on the configuration label.

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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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.