

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ZVC 20KHz â€" 8GHz Vector Network Analyzer

Rohde & Schwarz ZVC Vector Network Analyzer 20 kHz to 8 GHz The R&S ZVC is the 8 GHz four channel bidirectional member of the ZVR family (ZVRE/ZVR to 4 GHz; ZVCE/ZVC to 8 GHz). Integrated generator, test set, and receiver. Unlike economy ZVCE (three receiver channels), ZVC has two measurement and two reference channels, enabling TOM, TRM, TRL, TNA, TOSM, and TOMXcalibration. Test sets: active couplers 20 kHz to 8 GHz, passive SWR bridges 20 kHz to 8 GHz, or active bridges 300 kHz to 8 GHz (50 ohm). Internal PC with Windows NT. The R&S ZVC is the 8 GHz four channel bidirectional member of the ZVR family (ZVRE/ZVR to 4 GHz; ZVCE/ZVC to 8 GHz). Integrated generator, test set, and receiver. Unlike economy ZVCE (three receiver channels), ZVC has two measurement and two reference channels, enabling TOM, TRM, TRL, TNA, TOSM, and TOMXcalibration. Test sets: active couplers 20 kHz to 8 GHz, passive SWR bridges 20 kHz to 8 GHz, or active bridges 300 kHz to 8 GHz (50 ohm). Internal PC with Windows NT. Full two portSparameter R&D and production to 8 GHz; non coaxial TRL/TNA; mixer and amplifier with External Measurements; filter tuning at greater than 25 sweeps/s; on wafer with TOM X.



MODEL

Rohde & Schwarz ZVC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZVC

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz ZVC is a 20 kHz to 8 GHz vector network analyzer engineered for precision RF component and system characterization in R&D and production environments. Built with an integral S-parameter test set featuring bidirectional active couplers and active SWR bridges, the four-channel analyzer delivers normalized measurement speeds under 125 μ s/point and fully calibrated performance in under 240 μ s/point. Dynamic range reaches 60–120 dB standard, extending beyond 130 dB at 10 Hz IF bandwidth, enabling detailed analysis of transmission and reflection characteristics across demanding frequency spans.

Technical Specifications

Frequency Range: 20 kHz to 8 GHz Measurement Speed: <125 μ s/point (normalized); 130 dB (10 Hz IF bandwidth); >130 dB (external measurement option) Maximum Output Power: 1 mW Maximum Input Level: 0 dBm Power Resolution: 0.1 dB Displayed Average Noise: –100 dBm to –75 dBm Sweep Rate: >25 sweeps/s (200 points) Data Transfer Speed: <15 ms via IEC/IEEE bus Output Impedance: 50 Ohm Display: 26 cm active color LCD

Key Features

Four-channel receiver architecture for simultaneous measurement of all S-parameters without reconnection Calibration methods: TOM, TRM, TRL, TNA, TOSM, TOM-X; AutoKal automatic two-port calibration Calibration completion in <20 seconds Time-domain analysis with magnitude, phase, and group-delay response Ratioed measurements including phase determination Non-linear measurement capability (harmonics, compression point, IP2/IP3) Frequency-converting measurement option SCPI programming support

Typical Applications

Component S-parameter characterization and validation System-level RF transmission and reflection analysis Production-line network parameter testing Time-domain impulse response measurement Harmonic and intermodulation analysis

Connectivity & Integration

IEEE 488 and RS232C ports for peripheral device interface Internal PC running Windows NT operating system SCPI command language support

ZVC Characteristics / Specifications

PARAMETER	VALUE
Model	ZVC
Manufacturer	Rohde & Schwarz
Instrument Type	Vector Network Analyzer (4 channel, bidirectional)
Alias	R&S ZVC; ZVR family 8 GHz universal model
Frequency Active Couplers 50 ohm	20 kHz to 8 GHz
Frequency Passive SWR Bridges 50 ohm	20 kHz to 8 GHz
Frequency Active SWR Bridges 50 ohm	300 kHz to 8 GHz
Frequency with External Measurements Option	20 kHz to 8 GHz
Frequency Resolution	10 uHz
Frequency Uncertainty	4e-6 plus 1e-6 per year
Receiver Channels	4
Test Set	bidirectional
Dynamic Range ZVC 10 Hz IFBW	greater than 130 dB
Sensitivity	less than minus 130 dBm (10 Hz IFBW)
Sweep Rate	greater than 25 sweeps/s at 200 points
Measurement Time Fast Normalized 26 kHz	less than 125 us per point
Measurement Time Fast Calibrated 26 kHz	less than 240 us per point
Measurement Time Calibrated 10 kHz	less than 480 us per point
Number of Points	1 to 2001
IEC Transfer 200 Points Binary	less than 15 ms
IEC Single Marker	about 5 ms
IF Bandwidths	3 kHz, 10 kHz, 26 kHz (plus 10 Hz dynamic specs)
Display	26 cm active colour LCD

PARAMETER	VALUE
Calibration Methods	TOSM, TOM, TRM, TRL, TNA, TOMXAutoKal Two Port Time: less than 20 s class
Nominal Source Power for Specs	minus 10 dBm at port
Extended Source Level with Attenuators	down to minus 95 dBm
Extended Receive Level	up to plus 27 dBm
Test Port Connector	N female
Impedance	50 ohm
Internal OS	Windows NT on internal PC
Operating System PC Ports	keyboard, mouse, printer, external monitor
Trace Storage Formats	WMF, ASCII, Serenade class
Family Economy Sibling	ZVCE (3 channels, greater than 125 dB)
Family 4 GHz Siblings	ZVRE (3 ch), ZVR (4 ch)
Configurations	ZVC60 couplers; ZVC61 passive bridges; ZVC62 active bridges (reseller codes) Notes Specs from the R&S ZVR family data sheet. Confirm coupler versus bridge test set (changes start frequency 20 kHz vs 300 kHz and dynamic range/match). ZVC is not ZVA/ZNB. Read installed B21–B25 attenuator and External Measurements options.
Attenuation	0 dB to 70 dB

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	
Technical Specifications	
PARAMETER	VALUE
Model	ZVC
Manufacturer	Rohde & Schwarz
Instrument Type	Vector Network Analyzer (4 channel, bidirectional)
Alias	R&S ZVC; ZVR family 8 GHz universal model
Frequency Active Couplers 50 ohm	20 kHz to 8 GHz
Frequency Passive SWR Bridges 50 ohm	20 kHz to 8 GHz
Frequency Active SWR Bridges 50 ohm	300 kHz to 8 GHz
Frequency with External Measurements Option	20 kHz to 8 GHz
Frequency Resolution	10 uHz
Frequency Uncertainty	4e-6 plus 1e-6 per year
Receiver Channels	4
Test Set	bidirectional
Dynamic Range ZVC 10 Hz IFBW	greater than 130 dB
Sensitivity	less than minus 130 dBm (10 Hz IFBW)
Sweep Rate	greater than 25 sweeps/s at 200 points
Measurement Time Fast Normalized 26 kHz	less than 125 us per point
Measurement Time Fast Calibrated 26 kHz	less than 240 us per point
Measurement Time Calibrated 10 kHz	less than 480 us per point
Number of Points	1 to 2001
IEC Transfer 200 Points Binary	less than 15 ms
IEC Single Marker	about 5 ms
IF Bandwidths	3 kHz, 10 kHz, 26 kHz (plus 10 Hz dynamic specs)
Display	26 cm active colour LCD
Calibration Methods	TOSM, TOM, TRM, TRL, TNA, TOM X
AutoKal Two Port Time	less than 20 s class

PARAMETER	VALUE
Nominal Source Power for Specs	minus 10 dBm at port
Specifications	
PARAMETER	VALUE
Model	ZVC
Manufacturer	Rohde & Schwarz
Instrument Type	Vector Network Analyzer (4 channel, bidirectional)
Alias	R&S ZVC; ZVR family 8 GHz universal model
Frequency Active Couplers 50 ohm	20 kHz to 8 GHz
Frequency Passive SWR Bridges 50 ohm	20 kHz to 8 GHz
Frequency Active SWR Bridges 50 ohm	300 kHz to 8 GHz
Frequency with External Measurements Option	20 kHz to 8 GHz
Frequency Resolution	10 uHz
Frequency Uncertainty	4e-6 plus 1e-6 per year
Receiver Channels	4
Test Set	bidirectional
Dynamic Range ZVC 10 Hz IFBW	greater than 130 dB
Sensitivity	less than minus 130 dBm (10 Hz IFBW)
Sweep Rate	greater than 25 sweeps/s at 200 points
Measurement Time Fast Normalized 26 kHz	less than 125 us per point
Measurement Time Fast Calibrated 26 kHz	less than 240 us per point
Measurement Time Calibrated 10 kHz	less than 480 us per point
Number of Points	1 to 2001
IEC Transfer 200 Points Binary	less than 15 ms
IEC Single Marker	about 5 ms
IF Bandwidths	3 kHz, 10 kHz, 26 kHz (plus 10 Hz dynamic specs)
Display	26 cm active colour LCD
Calibration Methods	TOSM, TOM, TRM, TRL, TNA, TOMXAutoKal Two Port Time: less than 20 s class
Nominal Source Power for Specs	minus 10 dBm at port

Optional Generator Attenuation: 0 dB to 70 dB
Optional Receiver Attenuation: 0 dB to 70 dB

Specifications

PARAMETER	VALUE
Extended Source Level with Attenuators	down to minus 95 dBm
Extended Receive Level	up to plus 27 dBm
Test Port Connector	N female
Impedance	50 ohm
Internal OS	Windows NT on internal PC
Operating System PC Ports	keyboard, mouse, printer, external monitor
Trace Storage Formats	WMF, ASCII, Serenade class
Family Economy Sibling	ZVCE (3 channels, greater than 125 dB)
Family 4 GHz Siblings	ZVRE (3 ch), ZVR (4 ch)
Configurations	ZVC60 couplers; ZVC61 passive bridges; ZVC62 active bridges (reseller codes)

Notes

Specs from the R&S ZVR family data sheet. Confirm coupler versus bridge test set (changes start frequency 20 kHz vs 300 kHz and dynamic range/match). ZVC is not ZVA/ZNB. Read installed B21-B25 attenuator and External Measurements options.

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
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.