

ROHDE & SCHWARZ

ZVC

The Rohde & Schwarz ZVC is a high-performance vector network analyzer from the ZV Family, covering a broad frequency range from 20 kHz to 8 GHz. Designed for demanding RF and microwave measurements, it features an excellent dynamic range of over 130 dB and rapid measurement capabilities.

SPECIFICATIONS

General

Interfaces	GPIO (IEC/IEEE-488)
Display	Color LCD

Physical

Power Supply	100 V to 240 V AC (nominal), 47 Hz to 63 Hz
Operating Temperature	+5 °C to +45 °C °C
Dimensions (W×H×D)	435 mm × 281 mm × 584 mm mm
Weight	27 kg kg

Frequency & Stimulus

Frequency Range	20 kHz to 8 GHz
Number of Test Ports	2
Test Port Impedance	50 Ω

Receiver & Dynamic Range

System Dynamic Range	> 130 dB (at 10 Hz IF bandwidth)
Inherent Noise Floor	< -130 dBm (at 10 Hz IF bandwidth)

Measurement Speed & Settings

Measurement Time per Point (Normalized)	< 125 μs
Measurement Time per Point (Fully Calibrated)	< 240 μs
Data Transfer Time	< 15 ms (for 200 points via IEC/IEEE bus)
Sweep Rate	> 25 sweeps/s (for 200 points)

Measurement Capabilities & Calibration

Manual Calibration Techniques	TOM, TRM, TRL, TNA, TOM-X, TOSM
Automatic Calibration	AutoKal

System, Controller & Storage

Internal Operating System	Windows NT
Hardware Architecture	Internal PC

Hardware Interfaces & Connections

Test Port Connector Type	N (female)
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Frequency

Frequency Resolution	10 mHz
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Receiver

Number of Receivers	4
IF Bandwidth Range	1 Hz to 10 kHz

Source

Output Power Range	-95 dBm to +10 dBm
Output Power Resolution	0.1 dB

Measurement Capabilities

Number of Measurement Points	2 to 2001
Measurement Formats	S-parameters, Impedance, Admittance, Phase, Group Delay, VSWR, Smith Chart, Polar, Log/Linear Magnitude

Rear Panel Connections

External Reference Input	10 MHz
Reference Output	10 MHz
External Monitor Port	VGA (15-pin D-Sub)
Keyboard/Mouse Ports	2 × PS/2
Printer Port	25-pin Centronics parallel
Serial Port	9-pin RS-232-C
GPIB Interface	24-pin IEEE 488.2

System Configuration

Storage Media	3.5" floppy disk drive, internal hard disk
Command Set	SCPI

TECHNOLOGY

Vector Network Analyzer

APPLICATIONS

RF and microwave measurement, S-parameter characterization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.