

ROHDE & SCHWARZ

ZVL6

The Rohde & Schwarz ZVL6 is a highly portable and compact bidirectional 2-port vector network analyzer covering a frequency range from 9 kHz to 6 GHz. Designed to bridge the gap between low-cost and mid-range performance, it combines the capabilities of a full network analyzer, an optional spectrum analyzer, and an optional power meter in a single lightweight instrument (under 7 kg). Running on a Windows XP operating system, the ZVL6 supports comprehensive measurements of all four S-parameters, advanced trace evaluations, and multiple output formats. It is ideally suited for RF design, production, field service, and installation applications.

SPECIFICATIONS

Physical

Weight	< 7 kg (base unit without battery) kg
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Frequency Characteristics

Frequency Range	9 kHz to 6 GHz
Frequency Resolution	1 Hz

Test Port Output (Source)

Output Power Range	-50 dBm to 0 dBm
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Test Port Input (Receiver)

Input Connector Type	N female
Input Impedance	50 Ω

Measurement Capabilities

Measurement Parameters (S-Parameters)	S11, S21, S12, S22 (Bidirectional 2-port)
Measurement Points per Trace	2 to 4001
IF Bandwidths	10 Hz to 500 kHz
Display Formats	Smith chart, inverted Smith chart, magnitude and phase, polar diagram, real/imaginary, group delay, VSWR
Trace Evaluation Features	Max, min, rms, mean, std deviation, electrical length, phase delay, center frequency, bandwidth, quality factor, attenuation
Trace and Channel Handling	Overlay display of traces and different channels in a single diagram
Time Domain Analysis	Supported (Option ZVL-K2)
Distance-to-Fault (DTF)	Supported (Option ZVL-K3)
Data Export Formats	ASCII, Touchstone

Optional Spectrum Analyzer Mode

Frequency Range (SA)	9 kHz to 6 GHz (Option ZVL-K1)
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Power Measurement

Supported Power Sensors	Compatible with R&S NRP series (Option required)
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System and Control

Operating System	Windows XP
Control Features	Hard/soft key or mouse control, undo/redo, context-sensitive online help, remote desktop

Power Requirements

Battery Power	Optional
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Test Ports

Maximum DC Voltage	30 V
Maximum Input Power (Damage Level)	+27 dBm

Measurement Features

Calibration Methods	TOSM, TRL, TRM, TOM, TNA, UOSM, One-path two-port, Normalization
Sweep Types	Linear frequency, logarithmic frequency, segmented frequency, power sweep

Inputs & Outputs

Reference Frequency Input	10 MHz
Reference Frequency Output	10 MHz
Number of Test Ports	2

Upgrades & Options

Spectrum Analyzer Option	Supported (via R&S ZVL-K1 option)
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TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF Design, Production, Service, and Installation

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