R&S®ZNrun-K2 Automated Test Software VNA

Specifications

Test & Measurement

Data Sheet | 01.01

ROHDE&SCHWARZ

Specifications

The specifications of the R&S®ZNrun PC-based server platform for automated VNA tests are based on the data sheet specifications of the R&S®ZVA/R&S®ZVT/R&S®ZNB/R&S®ZNBT network analyzer, have not been checked separately and are not verified during instrument calibration. Measurement uncertainities are given as 95 % confidence intervals. The specified level measurement errors do not take into account systematic errors due to reduced signal to noise ratio (S/N).

Recommended system configuration

Operating system	Windows XP Service Pack 3 (32 bit), Windows Vista (32 bit), Windows 7 (32/64 bit)
Free hard disk space	600 Mbyte (32 bit), 1.5 Gbyte (64 bit)
Free RAM	512 Mbyte
Other requirements	Microsoft .NET Framework 4.0 or higher, Virtual Instrument Software Architecture (VISA), Microsoft Visual Studio 2010 (only for developing plugins and using the .NET interface)

PC based server platform for automated VNA tests

The R&S®ZNrun PC based server platform for automated VNA tests is compatible with

Device	Full compatibility	Limited compatibility	Not supported
Vector network analyzers			
R&S®ZVA		●	
R&S®ZVT		●	
R&S®ZNB	●		
R&S®ZNBT	●		
Switching matrices			
R&S®ZN-Z84	●		
R&S®ZV-Z81	●		
R&S®ZV-Z82	●		
Calibration units			
R&S®ZV-Z51	●		
R&S®ZV-Z52	●		
R&S®ZV-Z53	●		
R&S®ZV-Z54	●		
R&S®ZV-Z55	●		
R&S®ZV-Z58	●		
R&S®ZV-Z59	●		
Manual calibration kits			
All calibration kits from Rohde & Schwarz	●		

Frequency

Frequency range	RF output/input	The respective frequency range of the analyzer as stated in the data sheet is supported.

Level

Level range	RF output/input	The respective level range of the analyzer as stated in the data sheet is supported.

Bandwidth

Bandwidth range		The respective IF bandwidth range of the analyzer as stated in the data sheet is supported.

Number of sweep points

Sweep points range		The respective number of points of the analyzer as stated in the data sheet is supported.

Number of ports

Number of ports		The respective number of physical ports of the analyzer as stated in the data sheet is supported.

Measurement configuration

Device control (VNA)	connection	controls compatible Rohde & Schwarz devices via VISA (either GPIB or VXI-11)
DUT	VNA port connection	RF
	state switch	GPIO/RFFE with R&S®ZNB-B15 or customer specific with plugins
Measurement	parameters [1]	insertion loss, ripple, VSWR, reflection, attenuation, isolation, phase, group delay, lin. magnitude, real, imaginary
	result evaluation	pass/fail limit check based on the analyzer's measurement evaluation capabilities as stated in the user's manual

Calibration

Calibration	types	based on the analyzer's calibration capabilities as stated in the user's manual
	procedures	choose from either full calibration of the complete measurement setup or calibration of individual paths
User interface	production use	shows simplified step-by-step guide
	laboratory use	provides the user with enhanced calibration options

Measurement execution

Measurement	control	start, abort or repeat measurements
	DUT handling	auto-numbering for DUT names
Results	measurement parameters	pass/fail check
	statistics	check pass/fail against a previously defined target yield; additionally, the yield trend is shown
User interface	production use	shows simplified step-by-step guide
	laboratory use	provides the user with powerful debug options: breakpoints, single step, skipping measurement steps

Measurement instances

Number of measurement instances controlled simultaneously by one R&S®ZNrun server	R&S®ZNrun-K2 option installed	one or more instances [2]
	otherwise	one instance

Ordering information

Designation	Type	Order No.
Automated Test Software VNA	R&S®ZNrun-K1	1326.7124.02
Automated Test Software VNA (multiclient capability for R&S®ZNrun-K1)	R&S®ZNrun-K2	1326.7130.02
License Dongle	R&S®ZNPC	1325.6601.02

[1] The availability of measurements depends on the selected measurement path.

[2] The performance of the measurement execution depends on the actual PC system.

Service that adds value

- Worldwide
- Local and personalized
- Customized and flexible
- Uncompromising quality
- Long-term dependability

About Rohde&Schwarz

The Rohde&Schwarz electronics group is a leading supplier of solutions in the fields of test and measurement, broadcast and media, secure communications, cybersecurity, and radiomonitoring and radiolocation. Founded more than 80 years ago, this independent global company has an extensive sales network and is present in more than 70 countries. The company is headquartered in Munich, Germany.

Sustainable product design

- Environmental compatibility and eco-footprint
- Energy efficiency and low emissions
- Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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