

LabVIEW driver history for the R&S® Vector Network Analyzers Driver Documentation

Products:

| R&S®ZNA



| R&S®ZNB



| R&S®ZNC



| R&S®ZND



| R&S®ZNB1



Driver history for LabVIEW

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1 Supported Instruments

In the following table, the supported Rohde & Schwarz instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
ZNA	2.00	Compatibility support
ZNB	3.11	
ZNC	2.94	
ZND	3.11	
ZNBT	3.11	

2 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

2.1 Installation on a Windows machine

The driver is distributed as a WinZip self-extracting executable file. Installer supported operation systems: WinXP, Win7, Win8, Win10.

Preconditions:

- LabVIEW 2010 or newer installed
- Any VISA installed – R&S VISA 5.5.4 or newer / NI VISA 5.4 or newer

When you start the driver WinZip installer, the following steps are being performed:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: **C:\temp\rsvna-iv-3.11.0**
The driver is compiled in LabVIEW 2010 32-bit. From there you can copy to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite the data in this temporary folder.
2. After unpacking, the **Installer.vi** is automatically started in the last opened version of LabVIEW.
In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to use the driver. If that is not the case, cancel the installation at this point, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.
3. On the installer options page you have a choice to uncheck the **Mass-compiling** option (**not recommended, because of the driver's performance penalty as well as VIs opening times**) and you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not function.
On this page, you also see the actual LabVIEW version.
Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
4. The LabVIEW is closed and after starting it again, the driver is ready for use.

2.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine does not need to have LabVIEW installed.**

After the **Step 1** from the previous chapter is finished, copy the content of the temporary folder to your target machine and start the **Installer.vi** manually. From that point onwards, the installation process is the same as described in the previous chapter Steps 2, 3, and 4.

3 LabVIEW driver history

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
3.11.0	08/2020	<p>New core 6.70.x</p> <p>New:</p> <ul style="list-style-type: none"> Infinite Averaging (Class) Distance To Fault (Class) Display (Class) Test (Class) By Port Group (Class) Fixture Modeling (Class) Harmonic (Class) Info Window (Class) Menu Key (Class) TDR (Class) Data Memory (Class) Repeated Capability (Class) File List of Favorite Recall Set.vi Configure Print Color Scheme.vi File Store Distance to Fault Cable Types.vi File Load Distance to Fault Cable Types.vi File Added Comment.vi Configure File Symmetric Params.vi Define Sweep and Measurement.vi Define Sweep and Measurement With Arguments.vi Query Sweep and Measurement Definition.vi Configure Trace Display Label.vi Configure Trace Probe Tip Impedance.vi Trace User Defined Math Formatted.vi Configure Trace Math Formatted State.vi Configure Trace Math Formatted VI.vi Configure Time Domain VSWR Enabled.vi Configure Trace Statistical Reference.vi Configure Trace Statistical Manual Reference Level.vi Configure Trace Statistical Manual Reference Phase.vi Configure Trace Statistical Reference Marker.vi Configure Trace Statistical Reference Range.vi Configure Trace Statistical Compression Phase.vi Trace Data Extrapolation.vi Configure Limit Line Segment Formula.vi Configure Limit Line Segment Interpolation.vi

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Driver history for LabVIEW		
Revision	Date	Note
		Query Limit Line Fail Data.vi Configure Marker Reference Format.vi Configure Marker Threshold.vi Configure Marker Coupled Markers.vi Configure Marker Coupling Type.vi Configure Marker Excursion.vi Configure Marker Multiple Peak Excursion.vi Configure Marker Multiple Peak Threshold.vi Configure Sweep Segment Port Level.vi Select Calibration Type Simple.vi Configure Multicalibration Type.vi Configure Calibration Auto Minimum Connect.vi Configure Calibration Auto Common Port.vi Calibration Terminate System Error Correction.vi Calibration Clean.vi Configure Calibration Wave Correction Enabled.vi Configure Calibration Calculate After Deembed.vi Configure Calibration Standard.vi Configure Source Power Flatness Calibration State.vi Configure Source Power Flatness Calibration Method.vi Configure Source Power Calibration Generator Minimum Settling Delay.vi Configure Source Power Sweep End Mode.vi Configure Source Power Sweep End Settling Delay.vi Configure Reference Receiver Enabled.vi Configure GPIO Range.vi Query GPIO Shunt.vi GPIO Start All Measurements.vi Configure GPIO Measurement Time.vi Query GPIO Sum.vi GPIO Current Measurement.vi GPIO Current Measurement All.vi GPIO Voltage Measurement.vi GPIO Voltage Measurement All.vi Configure Parallel Measurement Port Groups Port Order.vi Configure Parallel Measurement Port Groups With Frequency Offset Enabled.vi Query Parallel Measurement Port Groups State Indication Warning.vi Configure Frequency Conversion Mixer.vi Configure AGC All A And B Waves.vi Configure AGC Segment All A And B Waves.vi Load Single Ended Port Circuit Model Data Inverted.vi Configure Virtual Network Ground Loop Per Port Group.vi

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		Configure Start In Preset.vi Configure Set All Traces to 0.vi Configure User Port Optional Columns.vi Configure Display Title.vi Configure Display Number of Trace Colours.vi Query System SCPI Commands.vi Query Implemented SCPI Commands.vi System Help Syntax.vi Configure GPIB Supresses.vi Configure Hostname.vi Display Correction Wizard Dialog.vi Query External Switch Matrices.vi Query Switch Matrix Serial Number.vi Modified: Configure Trace Format.vi - Trace formats updated Add Limit Line Segment.vi - Bug fixed, segment parameter now reserved Configure Circle Limit Check.vi - Ripple Check is now Circle Check Configure Marker Properties.vi - Fixed Marker values, help updated Marker Search.vi - Search types updated Configure Average Mode.vi - Modes, help updated Configure Sweep Meas Delay.vi - Delay range updated Configure Sweep Type.vi - Sweep Types updated Insert New Segment.vi - Breaking: Parameters added Redefine Segment.vi - Breaking: Parameters added Configure Connector.vi - Connectors updated, ring value names and help corrected Read Calibration Data.vi - Error Terms, helps updated Write Calibration Data.vi - Error Terms, helps updated Read Calibration Data Port.vi - Error Terms, helps updated Write Calibration Data Port.vi - Error Terms, helps updated Read Switch Matrix Calibration Data.vi - Error Terms updated Write Switch Matrix Calibration Data.vi - Error Terms updated Read Switch Matrix Calibration Data Port.vi - Error Terms updated Write Switch Matrix Calibration Data Port.vi - Error Terms updated Query Calibration Data Parameters Specific.vi - Types updated Query Calibration Data Parameters Port Specific.vi - Types updated Delete Calibration Kit.vi - Help updated Configure Calibration Standard With Label.vi - Breaking: Many changes Delete Calibration Kit With Label.vi - Help updated Query Source Power Calibration Data Parameters.vi - Setting types, help updated Power Meter Save Power Loss List.vi - Breaking: Channel parameter added Power Meter Load Power Loss List.vi - Breaking: Channel parameter added

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Driver history for LabVIEW		
Revision	Date	Note
		Configure Frequency Conversion Measurement Mode.vi - Modes updated; bug fixed Configure AGC Mode.vi - Range table, default updated, parameter reserved Configure AUX Trigger Out.vi - Per Point parameter (bool) now Interval (int) Configure Virtual Network Single Ended Port.vi - Ring value errors fixed Configure Virtual Network Balanced Data.vi - Interchange values updated Configure Virtual Network Differential Match Data.vi - Helps Diagram Area Catalog.vi - Window is now Reserved Configure Color Scheme.vi - Schemes updated Configure Calibration Auto Averaging.vi - Avaraging now Averaging Set Status Register.vi - Ring values now constants Get Status Register.vi - Ring values now constants Configure Switch Matrix State.vi - Bug fixed, correctly resets Matrix repcap
2.50.1	07/2019	Fixed OPC-synchronization bug
2.50.0	01/2019	Added compatibility support for R&S ZNA Network Analyzer Modified: Added prefix '_' to all private VI names
2.42.0	01/2018	Modified: Changed "Block Data" array parameter to content of a "Touchstone File": Configure Virtual Network Balanced Data.vi Configure Virtual Network Differential Match Data.vi Configure Virtual Network Single Ended Data.vi Fixed conversion of data array to Single Float in: Write Calibration Data Port.vi Write Calibration Data.vi Write Memory Trace Data Extended.vi Write Switch Matrix Calibration Data Port.vi Write Switch Matrix Calibration Data.vi Fixed bug when sending SCPI commands with parameters in apostrophes e.g. in attribute RSVNA_ATTR_CHANNEL_NAME
2.41.0	11/2017	Modified: Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons changed all *.mnu palette file names from 'dir.mnu' to '.mnu' fixed data binary transfer in _Write Trace Data.vi for non-VX-11 interfaces. added rsvna_queryDataUnknownLengthString_ReadCallback: RSVNA_ATTR_FILE_RECALL_SET_CATALOG RSVNA_ATTR_TRACE_CHANNEL_CATALOG RSVNA_ATTR_TRACE_CHANNEL_CATALOG_BALANCED_PORTS RSVNA_ATTR_TRACE_CATALOG RSVNA_ATTR_TRACE_NAME_CATALOG RSVNA_ATTR_TRACE_RESPONSE_S_DATA_CATALOG

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Driver history for LabVIEW		
Revision	Date	Note
		RSVNA_ATTR_CALIBRATION_CONNECTOR_TYPE_CATALOG RSVNA_ATTR_CHANNEL_CATALOG RSVNA_ATTR_DISPLAY_DIAGRAM_AREA_CATALOG RSVNA_ATTR_DISPLAY_TRACE_DIAGRAM_AREA_CATALOG
2.40.0	04/2017	Exchanged Driver Core 6.7.0 that supports Simulation mode and Logging Changed Icons strip and Palette Icons Cleaned up all the Front Panels and Block Diagrams Fixed Option checking bug Analyzer port number extended from 8 to 24 New VIs: Trace Export Data Ports Variable.vi Write Command with OPC sync.vi Query with OPC sync.vi Breaking changes: Configure Calibration Standard.vi - deleted, replacement is Configure Calibration Standard Extended.vi
2.30.1	12/2016	Increased port count from 8 to 24
2.30.0	11/2016	New instrument driver core with full Simulation support and no dynamically called VIs. Added more rigorous check for Repeated Capabilities New VIs: Clear Status.vi ID Query Response.vi Process All Previous Commands.vi Query OPC.vi Set Fast Sweep Mode.vi Breaking changes: Add Calibration Kit Auto.vi - added Timeout to API Calibration Auto Simplified.vi - added Timeout to API Calibration Auto Type Simplified.vi - added Timeout to API Calibration Auto Type.vi - added Timeout to API Calibration Auto.vi - added Timeout to API Configure Calibration Kit Auto.vi - added Timeout to API Modified VIs: Select Ratios.vi - SCPI command parameters corrected for Ratios 2 (b2/a2 Src Port 2) and 3 (b1/a2 Src Port 2) Recall Set Manager.vi - when loading Recall Set, dynamic repeated capabilities are synchronized with instrument's state
2.22.0	09/2016	New driver automatic installer All VISA resource name inputs are mandatory

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<p>Improved error handling</p> <p>Changed allowed number of ports from 4 to 24</p> <p>Changed Path Controls in Read To File From Instrument.vi and Write From File To Instrument.vi from Path to String</p>
2.21.0	10/2015	<p>New VIs:</p> <p>Select Power Sensor Measurement.vi</p> <p>Configure Frequency Min Max.vi</p> <p>Configure Display Update.vi</p> <p>Display Update Once.vi</p> <p>Write Instrument Data.vi</p> <p>Configure Marker State.vi</p> <p>Modified VIs:</p> <p>Select Ratios.vi - SCPI command parameter array corrected</p> <p>Line 3 (MM) Standard SCPI command parameter (value 9) corrected in these VI:</p> <p>Query Calibration Unit Characterization Data.vi</p> <p>Configure Calibration Standard.vi</p> <p>Configure Calibration Standard Ext.vi</p> <p>Load Calibration Kit.vi</p> <p>Configure Calibration Standard With Label.vi</p> <p>Load Calibration Kit With Label.vi</p> <p>Read Calibration Kit With Label S-Parameter Data.vi</p>
2.20.2	01/2015	<p>New:</p> <p>Express VI 3.0.1 with the support for QuickDrop SCPI command searcher</p> <p>Modified VIs:</p> <p>Activate Power Calibrations.vi - added Channel control to front panel</p> <p>Connector Types Catalog.vi - removed repeated capability from attribute</p> <p>Configure Source Power Calibration Slope.vi - fixed wrong attribute used</p> <p>Print.vi - bug fixed</p> <p>Configure User Defined Preset Calibration.vi - bug fixed</p>
2.20.1	12/2014	<p>Added support for ZND instrument</p> <p>Attribute Express VI version 2.50</p>
2.20.0	07.2014	<p>Support for firmware version 2.20</p> <p>Attribute Express VI version 1.10</p> <p>New VIs:</p> <p>Configure Logical Port Reference Impedance Default.vi</p> <p>Delete Memory Trace All.vi</p> <p>Delete Memory Trace All Channel.vi</p> <p>Configure Calibration Standard Extended.vi</p> <p>Configure Calibration Delay Mode.vi</p>

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<p>Load Calibration Kit With Label.vi Read Calibration Kit With Label S-Parameter Data.vi Configure RFFE Settings.vi Configure RFFE Command.vi Configure GPIO.vi Query Sweep Sequencer Count.vi Delete All Sweep Sequencer Items.vi Configure Sweep Sequencer RFFE Command .vi Configure Sweep Sequencer GPIO Voltage.vi Configure Sweep Sequencer Delay Time.vi Define Parallel Measurement Port Group.vi Configure Parallel Measurement Port Group Name.vi Configure Parallel Measurement Number Of Ports.vi Configure Parallel Measurement DUT Port .vi Configure Offset Compensation.vi Define Virtual Network Port Set.vi Import Fixture Compensation.vi Export Fixture Compensation.vi Configure Remote Encoding.vi Query Program Return Value.vi</p> <p>Modified VIs: Removed range checking of attribute RSVNA_ATTR_STIMULUS_INTERNAL_SOURCE_POWER Trace Export Data Ports.vi - changed API Configure Calibration Standard With Label.vi Configure Virtual NetworkSingleEndedPort.vi Configure Virtual Network Single Ended Circuit Model.vi Configure Virtual Network Balanced Port.vi Configure Virtual Network Balanced Circuit Model.vi Configure Virtual Network Port Pair.vi Configure Virtual Network Port Pair Circuit Model.vi Configure Virtual Network Ground Loop.vi Configure Virtual Network Ground Loop Circuit Model.vi</p>
1.93.0	10/2013	<p>Support for firmware version 1.93</p> <p>New VIs: Trace Import Data Auto Distribute.vi Query Calibration Data Parameters Specific.vi Query Calibration Data Parameters Port Specific.vi Query Source Power Calibration Data Parameters Switching Matrix.vi Define Virtual Network Port Pair.vi Delete Virtual Network Port Pair.vi</p>

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Revision	Date	Note
		Configure Virtual Network Port Pair State.vi Configure Virtual Network Port Pair.vi Configure Virtual Network Port Pair Circuit Model.vi Load Port Pair Circuit Model Data.vi Configure Virtual Network Ground Loop State.vi Configure Virtual Network Ground Loop.vi Configure Virtual Network Ground Loop Circuit Model.vi Load Ground Loop Circuit Model Data.vi Configure Virtual Network Differential Match State.vi Configure Virtual Network Differential Match.vi Configure Virtual Network Differential Match Data.vi Configure Virtual Network Differential Match Circuit Model.vi Load Differential Match Circuit Model Data.vi Configure Remote Preset.vi Modified VIs: Query Source Power Calibration Data Parameters.vi
1.90.0	08/2013	Support for firmware version 1.90 New VIs: Select Balanced Ports S-Parameters.vi Trace List Balanced Ports.vi Select Calibration Type Extended.vi Load Calibration Kit By Gender From File.vi Load Calibration Kit By Gender From Pool.vi Query Calibration Kit Data.vi Query Calibration Kit Info.vi Configure Virtual Network Balanced Data.vi Configure Virtual Network Single Ended Data.vi Query Switch Matrix Relay Count.vi Configure User Defined Physical Port.vi Delete User Defined Physical Ports.vi RSVNA_ATTR_INIT_WAIT_STATE RSVNA_ATTR_LOGICAL_PORT_ALINGMENT Modified VIs: Select Calibration Type.vi Configure Virtual Network Single Ended Port.vi Configure Sweep Number Of Points.vi - range fixed
1.80.0	03/2013	Support for firmware version 1.80 New VIs: Add Calibration Kit Auto.vi Generate Default Calibration Auto Assignment With Detection.vi

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		Configure Marker Target Format.vi Configure User Defined Preset Calibration.vi Query All Calibration Auto Assignment Count.vi Save AGC Learning Results.vi Start AGC Learning Sweep.vi Configure Calibration Auto Averaging.vi Modified VIs: Generate Default Calibration Auto Assignment.vi RSVNA_ATTR_CALIBRATION_CONNECTOR - bug fixed (affected VI Configure Connector.vi) Configure Virtual Network Single Ended Port.vi Configure Virtual Network Single Ended Circuit Model.vi Create Trace S-Parameters Group.vi
1.70.0	12/2012	Support for firmware version 1.70 Switch Matrix Support Calibration Auto Assignment support Logical Ports Port Groups New VIs: Create Trace S-Parameters Group.vi Configure Time Gate Offset Activation.vi Clear Limit Check Results.vi Clear Ripple Limit Global Check Result.vi Clear Circle Limit Check Result.vi Query Sweep Segment Number.vi Query Calibration Ports State.vi Configure Port Connector Types.vi Query Calibration Data Parameters Count.vi Configure External Power S Parameter Correction.vi Configure Calibration Kit Auto.vi Query Source Power Calibration Data Parameters.vi Query Source Power Calibration Data Parameters Count.vi Configure Receiver Power Attenuation.vi Configure Receiver Frequency Conversion.vi Configure Mixer Input Signal.vi Configure Calibration Manager State.vi Configure UI Data Flow Direction.vi Configure UI Output Ports State.vi Configure UI Digital Signal.vi Modified VIs: Define Balanced Port.vi - calls into new VI Define Logical Port.vi

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		Delete Balanced Port.vi - calls into new VI Delete Logical Port.vi Delete All Balanced Ports.vi - calls into new VI Delete All Logical Ports.vi Select Calibration Type.vi - added new calibration types Configure Mixer Power.vi
1.61.0	05/2012	Support for ZNB, ZNC firmware version 1.61 New VIs: Show Circle Limits.vi Configure Circle Limit Check.vi Configure Circle Limit Line.vi Query Circle Limit Check Result.vi Configure Zoom Overview.vi Configure Layout Simplified.vi Configure Layout.vi Join Layouts.vi Configure Calibration Standard With Labels.vi Configure Calibration Kit With Label.vi Configure Calibration Kit User Connector Type With Label.vi Calibration Kit Catalog With Label.vi Calibration Standards Catalog With Label.vi Configure Calibration Kit Label With Label.vi Delete Calibration Kit With Label.vi Export Kit With Label.vi Query Available Calibration Data Catalog.vi Query Available Calibration Data Catalog Port.vi Configure Sweep Meas Delay Insertion Point.vi Configure Intermodulation Cal Source Port.vi Temporary Disable Option.vi New Attributes Only: RSVNA_ATTR_CIRCLE_FAIL_BEEP RSVNA_ATTR_DISPLAY_TRACE_INFO_STATE RSVNA_ATTR_ADJUST_TIME_GATE Modified VIs: Configure AGC.vi Configure AGC Segment.vi
1.50.0	04/2012	Support for ZNB, ZNC firmware version 1.50 Support for firmware version 1.50 New subsystems: Mixer (option K4)

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		Intermodulation Measurements (option K14) Fixture Compensation ENA support (AUX Trigger and Universal Interface) Automatic Gain Control Modified VIs: Start Calibration.vi - added Power Meter Configure Marker Bandfilter Search Mode.vi - added None search mode New VIs: Query Frequency Range.vi Configure Average Mode.vi Activate Power Calibrations.vi System Version.vi set Check Status.vi Configure Split Type.vi Configure Split Grid.vi
1.40.0	01/2012	Support for ZNB, ZNC firmware version 1.40 Modifications: New subsystems: Power Added Efficiency Source Power Calibration Receiver Power Calibration Power Meter Transmission Coefficients Port Config External Devices Modified functions Configure DC Range.vi - parameters changed Configure Acquisition.vi - attributeATTR_SWEEP_MODE_CONTINUOUS_ALL_CHANNEL added Select Calibration Type.vi - bug fixed Calibration Auto Type.vi - Parameters - Full N-port for SMARTerCal added Calibration Auto Type Simplified.vi - Parameters - Full N-port for SMARTerCal added Query Calibration Connection.vi - Channel ignored Configure Connector.vi - BNC added Save Calibration Kit.vi - repaired, delete changed to save New functions: Trace Delete All.vi Trace Delete All Channels.vi Trace Response Data All S-Data.vi Trace Response S-Data Catalog.vi Trace Response Single Sweep Data First Last.vi Configure Power Start Stop.vi

rsvna Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		Configure Sweep Stimulus Axis.vi Configure Sweep Segment X-Axis.vi Calibration Auto Power.vi Configure Calibration External Power Meter.vi Query Calibration Unit Characterizations Standards.vi Read Calibration Data Port.vi Write Calibration Data Port.vi Query Calibration Stimulus Frequencies Port.vi Query Calibration Data Parameters Port.vi Configure Calibration Kit Password.vi Save Calibration Kit.vi Configure Touchscreen Lock.vi Configure User Key Function.vi New Attribute only: RSVNA_ATTR_LOAD_MATCH_CORRECTION_STATE RSVNA_ATTR_CALIBRATION_ALL_CHANNELS_STATE RSVNA_ATTR_DISPLAY_TRACE_COLOR_FOR_LIMIT_LINES RSVNA_ATTR_DISPLAY_COLORIZE_FAILED_SEGMENTS RSVNA_ATTR_DISPLAY_SHOW_FAILED_SYMBOLS RSVNA_ATTR_CALIBRATION_AUTOMATIC_POWER_REDUCTION RSVNA_ATTR_STATISTICAL_COMPRESSION_POINT_RESULT_STATE RSVNA_ATTR_DISPLAY_FREQUENCY_INFO_STATE RSVNA_ATTR_DISPLAY_CHANNEL_INFO_STATE RSVNA_ATTR_DISPLAY_ALL_MARKERS_SAME_COLOR RSVNA_ATTR_DISPLAY_TRACE_COLORS_PER_DIAGRAM RSVNA_ATTR_DISPLAY_FONT_SIZE RSVNA_ATTR_NUMBER_OF_TEST_PORTS RSVNA_ATTR_SOURCE_POWER_CALIBRATION_OTHER_SOURCES RSVNA_ATTR_CALIBRATION_AUTOMATIC_MEMORY_STATE RSVNA_ATTR_DISPLAY_HARDKEY_PANEL_STATE RSVNA_ATTR_DISPLAY_MENU_BAR_STATE RSVNA_ATTR_DISPLAY_STATUS_BAR_STATE RSVNA_ATTR_DISPLAY_SOFTTOOL_PANEL_STATE RSVNA_ATTR_DISPLAY_TITLE_BAR_STATE RSVNA_ATTR_DISPLAY_TOOLBAR_STATE RSVNA_ATTR_REPEAT_PREVIOUS_CALIBRATION_CURRENT
1.20.0	07/2011	Support for ZNB, ZNC firmware version 1.20
1.0.0	06/2011	Initial release

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 80 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

Environmental commitment

- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system



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