

# LabVIEW driver history for the R&S® SGMA Vector RF Source

## Products:

| R&S®SGT100A



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:

<b>Which instruments are supported?</b>		
<b>Current revision of instrument driver supports these instruments and firmware versions:</b>		
<b>Instrument</b>	<b>Supported Firmware</b>	<b>Remarks</b>
SGT100A	4.70.xxx	

## 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\rssgt-lv-1.6.5**  
The driver is compiled in LabVIEW 2015 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's 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 also 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

rsgt Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
1.6.5	02/2020	Driver revision changed to match the CVI driver
1.6.4	07/2019	<p>New VIs: Power Servoing Set.vi</p> <p>Updated VIs: Configure ARB Marker Delay.vi - parameter 'Fix Marker Delay' no longer used ARB Multisegment Load From Configuration File.vi - help updated</p> <p>New attributes: RSSGT_ATTR_PSER_SENSOR RSSGT_ATTR_PSER_APER RSSGT_ATTR_PSER_STATE RSSGT_ATTR_PSER_TARGET RSSGT_ATTR_PSER_TEST RSSGT_ATTR_PSER_TOL RSSGT_ATTR_PSER_TRACK RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_PHASE_OFFSET</p> <p>Deleted attributes: RSSGT_ATTR_ARB_FIX_MARKER_DELAY_TO_CURRENT_RANGE</p> <p>Updated repeated capabilities: IQOutput - valid values changed from 1..4 to 0..1</p>
1.6.3	04/2018	<p>Driver bug fixes Initialize.vi, Close.vi and Utility VIs have new VI icons</p> <p>New VIs: Read Power Measurement.vi</p> <p>Deleted attributes: RSSGT_ATTR_POWER_BASEBAND_ACQUISITION RSSGT_ATTR_POWER_BASEBAND_DURATION RSSGT_ATTR_POWER_BASEBAND_GATE_SOURCE RSSGT_ATTR_POWER_BASEBAND_INDEX RSSGT_ATTR_POWER_BASEBAND_MEASUREMENT_STATE RSSGT_ATTR_POWER_BASEBAND_OUTPUT RSSGT_ATTR_POWER_BASEBAND_RUN_MODE RSSGT_ATTR_POWER_BASEBAND_SOURCE RSSGT_ATTR_POWER_BASEBAND_STATUS</p> <p>Updated attributes: RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_DELAY RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_ENABLED RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_LEAKAGE_I RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_LEAKAGE_Q RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_QUADRATURE_OFFSET RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_RATIO RSSGT_ATTR_IQ_OUTPUT_IMPAIRMENTS_SKEW RSSGT_ATTR_POWER_READ_POWER (deprecated)</p>
1.6.2	12/2016	Driver revision changed to match the CVI driver
1.6.1	08/2016	<p>New attributes: RF Frequency Offset (RSSGT_ATTR_RF_FREQUENCY_OFFSET)</p> <p>Modified VIs: MMEMory Store.vi - SCPI command '*SAV' added MMEMory Load.vi - SCPI command '*RCL' added Configure Envelope Tracking Polynomial Coefficients.vi - modified implementation, Imaginary parameter removed</p>

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Driver history for LabVIEW		
Revision	Date	Note
1.6.0	03/2016	<p>Added Power Measurement</p> <p>New VIs:            Bin Data From File To Instrument.vi            Bin Data To File From Instrument.vi            Clear Status.vi            ID Query Response.vi            Process All Previous Commands.vi            Query OPC.vi            Option Checking.vi</p> <p>Modified VIs:            MMEemory Read To File From Instrument.vi - Source data type changed from Path to String, new data handling            MMEemory Write From File To Instrument.vi - Destination data type changed from Path to String, new data handling            Instrument Options.vi - reading options improved            Configure ARB Offsets.vi - help updated            ARB Multisegment Append Segment To Play List.vi - bug fixed formatting SCPI command parameter 'Next'            RSSGT_ATTR_ARB_ENABLED - added *WAI            Configure ARB.vi - help updated            System Protect.vi - added new parameter 'Level' to API            Read ARB File Tag.vi - removed the leading # character and digits, tailing new line character from the response            Read ARB Tag.vi - removed the tailing new line character from the response            Configure ARB Multi Carr.vi - range checking removed at parameters 'Frequency', 'Gain', 'Phase' and 'Delay'            Configure ARB Multi Carrier Table.vi - range checking removed from all parameters            Configure Frequency Phase.vi - range checking removed at parameter 'Frequency' and 'Delta Phase'            Configure Power Measurement.vi - range checking removed at parameter 'Level Offset'            Configure ARB Multi Carrier Clipping.vi - range checking removed at parameter 'Target Crest Factor' and 'Filter Cut Off Frequency'            Configure ARB Multi Carrier.vi - range checking removed at parameter 'Carrier Spacing', 'Number Of Carriers' and 'Signal Period'            Configure Reference Oscillator Adjustment.vi - range checking removed at parameter 'Small Shift'            Configure AWGN Noise Only.vi - range checking removed at parameter 'System Bandwidth'            Configure IQ Impairments.vi - range checking removed at parameter 'I Offset', 'Q Offset', 'Gain Imbalance' and 'Quadrature Offset'            Configure Level Attenuator Settings.vi - range checking removed at parameter 'SATT'            Configure ARB Marker Divider.vi - range checking removed at parameter 'Divider'            Configure ARB Multi Carrier Table Carrier.vi - range checking removed at parameter 'Carrier Start' and 'Carrier Stop'            Configure ARB Sine Test Signal.vi - range checking removed from all parameters            Configure ARB Rect Test Signal.vi - range checking removed from all parameters            ARB Multi Carrier Table Number Of Carriers.vi - range checking removed at parameter 'Number Of Carriers'            Configure ARB CIQ Test Signal.vi - range checking removed from all parameters</p> <p>Deleted VIs:            MMEemory Drive.vi</p>
1.5.1	01/2016	Removed range checking of frequency offset
1.5.0	09/2015	<p>Modified VIs:            Configure ARB.vi - attribute order corrected</p>
1.3.0	06/2015	<p>Version 1.3.0</p> <p>Added Digital Predistortion subsystem            Added Envelope Tracking subsystem            Added Path to the ARB subsystem</p>

rsgt Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<p>New VIs:</p> <p>Configure ARB File Clock.vi            Select Active Path.vi</p> <p>Modified VIs:</p> <p>Write ARB Data.vi - helps fixed            Configure ARB Trigger Source.vi - ring values fixed            Configure Local Oscillator Source.vi - ring names fixed            Configure Reference Oscillator Source.vi - ring names fixed            Configure Level ALC.vi - ring 'State' fixed</p> <p>New attributes:</p> <p>IQ Output Analog Enabled (RSSGT_ATTR_IQ_OUTPUT_ANALOG_ENABLED)            IQ Output Analog Set To Default (RSSGT_ATTR_IQ_OUTPUT_ANALOG_SET_TO_DEFAULT)            IQ Output Analog Type (RSSGT_ATTR_IQ_OUTPUT_ANALOG_TYPE)            IQ Output Analog Load Settings (RSSGT_ATTR_IQ_OUTPUT_ANALOG_LOAD_SETTINGS)            IQ Output Analog Store Settings (RSSGT_ATTR_IQ_OUTPUT_ANALOG_STORE_SETTINGS)            IQ Output Analog Delete Settings (RSSGT_ATTR_IQ_OUTPUT_ANALOG_DELETE_SETTINGS)            IQ Output Analog Settings Catalog (RSSGT_ATTR_IQ_OUTPUT_ANALOG_SETTINGS_CATALOG)            Envelope Tracking RF Envelope (RSSGT_ATTR_ENVELOPE_TRACKING_RF_ENVELOPE)            Envelope Tracking Voltage Adaptation            (RSSGT_ATTR_ENVELOPE_TRACKING_VOLTAGE_ADAPTATION)            Envelope Tracking eTrack Interface Type            (RSSGT_ATTR_ENVELOPE_TRACKING_ETRACK_INTERFACE_TYPE)            Envelope Tracking Voltage Reference            (RSSGT_ATTR_ENVELOPE_TRACKING_VOLTAGE_REFERENCE)            Envelope Tracking Vout Max (RSSGT_ATTR_ENVELOPE_TRACKING_VOUT_MAX)            Envelope Tracking Vout Min (RSSGT_ATTR_ENVELOPE_TRACKING_VOUT_MIN)            Envelope Tracking Bias (RSSGT_ATTR_ENVELOPE_TRACKING_BIAS)            Envelope Tracking Offset (RSSGT_ATTR_ENVELOPE_TRACKING_OFFSET)            Envelope Tracking Vpp Max (RSSGT_ATTR_ENVELOPE_TRACKING_VPP_MAX)            Envelope Tracking EMF Enabled (RSSGT_ATTR_ENVELOPE_TRACKING_EMF_ENABLED)            Envelope Tracking Rin (RSSGT_ATTR_ENVELOPE_TRACKING_RIN)            Envelope Tracking Termination (RSSGT_ATTR_ENVELOPE_TRACKING_TERMINATION)            Envelope Tracking Bipolar Input Enabled            (RSSGT_ATTR_ENVELOPE_TRACKING_BIPOLAR_INPUT_ENABLED)            Envelope Tracking Gain (RSSGT_ATTR_ENVELOPE_TRACKING_GAIN)            Envelope Tracking Vcc Offset (RSSGT_ATTR_ENVELOPE_TRACKING_VCC_OFFSET)            Envelope Tracking Vcc Max (RSSGT_ATTR_ENVELOPE_TRACKING_VCC_MAX)            Envelope Tracking Vcc Min (RSSGT_ATTR_ENVELOPE_TRACKING_VCC_MIN)            Envelope Tracking PEPin Max (RSSGT_ATTR_ENVELOPE_TRACKING_PEP_IN_MAX)            Envelope Tracking PEPin Min (RSSGT_ATTR_ENVELOPE_TRACKING_PEP_IN_MIN)            Envelope Tracking Power Offset (RSSGT_ATTR_ENVELOPE_TRACKING_POWER_OFFSET)            Envelope Tracking Delay (RSSGT_ATTR_ENVELOPE_TRACKING_DELAY)            Envelope Tracking Calculate Envelope from Predistorted Signal            (RSSGT_ATTR_ENVELOPE_TRACKING_CALCULATE_ENVELOPE_FROM_PREDISTORTED_SIGNAL)            Envelope Tracking Shaping (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING)            Envelope Tracking Shaping Detrouching Function            (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_DETROUGHING_FUNCTION)            Envelope Tracking Shaping Couple Detrouching Factor with Vcc            (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_COUPLE_DETROUGHING_FACTOR_WITH_VCC)            Envelope Tracking Shaping Detrouching Factor            (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_DETROUGHING_FACTOR)            Envelope Tracking Shaping Detrouching Exponent            (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_DETROUGHING_EXPONENT)            Envelope Tracking Shaping Pre Gain (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_PRE_GAIN)            Envelope Tracking Shaping Post Gain (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_POST_GAIN)</p>



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		Envelope Tracking Shaping Interpolation (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_INTERPOLATION) Envelope Tracking Shaping Scale (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_SCALE) Envelope Tracking Shaping File Catalog (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_FILE_CATALOG) Envelope Tracking Shaping Select File (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_SELECT_FILE) Envelope Tracking Shaping PV File Catalog (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_PV_FILE_CATALOG) Envelope Tracking Shaping PV Select File (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_PV_SELECT_FILE) Envelope Tracking Shaping Polynomial File Catalog (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_POLYNOMIAL_FILE_CATALOG) Envelope Tracking Shaping Polynomial Load File (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_POLYNOMIAL_LOAD_FILE) Envelope Tracking Shaping Polynomial Save File (RSSGT_ATTR_ENVELOPE_TRACKING_SHAPING_POLYNOMIAL_SAVE_FILE) Digital Predistortion Enabled (RSSGT_ATTR_DIGITAL_PREDISTORTION_ENABLED) Digital Predistortion Set To Default (RSSGT_ATTR_DIGITAL_PREDISTORTION_SET_TO_DEFAULT) Digital Predistortion Load Settings (RSSGT_ATTR_DIGITAL_PREDISTORTION_LOAD_SETTINGS) Digital Predistortion Store Settings (RSSGT_ATTR_DIGITAL_PREDISTORTION_STORE_SETTINGS) Digital Predistortion Delete Settings (RSSGT_ATTR_DIGITAL_PREDISTORTION_DELETE_SETTINGS) Digital Predistortion Settings Catalog (RSSGT_ATTR_DIGITAL_PREDISTORTION_SETTINGS_CATALOG) Digital Predistortion AM/AM First (RSSGT_ATTR_DIGITAL_PREDISTORTION_AM_AM_FIRST) Digital Predistortion Level Reference (RSSGT_ATTR_DIGITAL_PREDISTORTION_LEVEL_REFERENCE) Digital Predistortion Maximum Output Level Error (RSSGT_ATTR_DIGITAL_PREDISTORTION_MAXIMUM_OUTPUT_LEVEL_ERROR) Digital Predistortion Maximum Number of Iteractions (RSSGT_ATTR_DIGITAL_PREDISTORTION_MAXIMUM_NUMBER_OF_ITERATIONS) Digital Predistortion Interactions Status (RSSGT_ATTR_DIGITAL_PREDISTORTION_INTERACTIONS_STATUS) Digital Predistortion Achieved Output Level Error (RSSGT_ATTR_DIGITAL_PREDISTORTION_ACHIEVED_OUTPUT_LEVEL_ERROR) Digital Predistortion Input PEP (RSSGT_ATTR_DIGITAL_PREDISTORTION_INPUT_PEP) Digital Predistortion Input Level (RSSGT_ATTR_DIGITAL_PREDISTORTION_INPUT_LEVEL) Digital Predistortion Input Crest Factor (RSSGT_ATTR_DIGITAL_PREDISTORTION_INPUT_CREST_FACTOR) Digital Predistortion Output PEP (RSSGT_ATTR_DIGITAL_PREDISTORTION_OUTPUT_PEP) Digital Predistortion Output Level (RSSGT_ATTR_DIGITAL_PREDISTORTION_OUTPUT_LEVEL) Digital Predistortion Output Crest Factor (RSSGT_ATTR_DIGITAL_PREDISTORTION_OUTPUT_CREST_FACTOR) Digital Predistortion AM/AM State (RSSGT_ATTR_DIGITAL_PREDISTORTION_AM_AM_STATE) Digital Predistortion AM/PM State (RSSGT_ATTR_DIGITAL_PREDISTORTION_AM_PM_STATE) Digital Predistortion Shaping (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING) Digital Predistortion Interpolation (RSSGT_ATTR_DIGITAL_PREDISTORTION_INTERPOLATION) Digital Predistortion Invert Correction Values (RSSGT_ATTR_DIGITAL_PREDISTORTION_INVERT_CORRECTION_VALUES) Digital Predistortion Maximum PEP Input Power (RSSGT_ATTR_DIGITAL_PREDISTORTION_MAXIMUM_PEP_INPUT_POWER) Digital Predistortion Minimum PEP Input Power (RSSGT_ATTR_DIGITAL_PREDISTORTION_MINIMUM_PEP_INPUT_POWER) Digital Predistortion Pre Gain (RSSGT_ATTR_DIGITAL_PREDISTORTION_PRE_GAIN) Digital Predistortion Shaping Table AM/AM File Catalog (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_TABLE_AM_AM_FILE_CATALOG)

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Driver history for LabVIEW		
Revision	Date	Note
		<p>Digital Predistortion Shaping Table AM/AM Select File (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_TABLE_AM_AM_SELECT_FILE)</p> <p>Digital Predistortion Shaping Table AM/PM File Catalog (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_TABLE_AM_PM_FILE_CATALOG)</p> <p>Digital Predistortion Shaping Table AM/PM Select File (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_TABLE_AM_PM_SELECT_FILE)</p> <p>Digital Predistortion Shaping Polynomial File Catalog (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_POLYNOMIAL_FILE_CATALOG)</p> <p>Digital Predistortion Shaping Polynomial Load File (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_POLYNOMIAL_LOAD_FILE)</p> <p>Digital Predistortion Shaping Polynomial Save File (RSSGT_ATTR_DIGITAL_PREDISTORTION_SHAPING_POLYNOMIAL_SAVE_FILE)</p> <p>Deleted attributes:</p> <p>RSSGT_ATTR_TRIGGER_CONTROL_INPUT_THRESHOLD</p> <p>RSSGT_ATTR_TEST_BIT_ERROR_RATE</p> <p>RSSGT_ATTR_TEST_INTERFACE_SPEED</p> <p>RSSGT_ATTR_TEST_PSEUDO_RANDOM_SEQUENCE_ENABLED</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_OVERFLOW_SINCE_LAST_RESET</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_OVERFLOW_ENABLED</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_CONNECTED_INSTRUMENTS</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_POWER_ON_STATE</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_LEVEL</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_LEVEL_PEP</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_STEP_MODE</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_STEP_WIDTH</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_SAMPLE_RATE</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_SIGNAL_TRANSMISSION</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_SAMPLE_RATE_SOURCE</p> <p>RSSGT_ATTR_IQ_OUTPUT_DIGITAL_ENABLED</p> <p>RSSGT_ATTR_IQ_OUTPUT_LEVEL</p> <p>Modified attributes:</p> <p>'Path' repeated capability added to the ARB subsystem</p> <p>Reference Oscillator External Frequency (RSSGT_ATTR_REFERENCE_OSCILLATOR_EXTERNAL_FREQUENCY) - Range table fixed</p> <p>ARB Multisegment Next Segment Source (RSSGT_ATTR_ARB_MULTISEGMENT_NEXT_SEGMENT_SOURCE) - Range table renamed, old range table was used with different attribute that used different values</p> <p>ARB Multisegment Output Segment (RSSGT_ATTR_ARB_MULTISEGMENT_OUTPUT_SEGMENT) - Data type changed from ViInt32 to ViReal64</p> <p>Modified Range Tables:</p> <p>rsgt_rngARBMultisegmentLevelMode.RSSGT_VAL_ARB_LEVEL_MODE_ERMS - RSSGT_ATTR_ARB_MULTISEGMENT_LEVEL_MODE Enum name changed ("EqualRMS", "ERMS")</p> <p>rsgt_rngARBMultisegmentLevelMode.RSSGT_VAL_ARB_LEVEL_MODE_ERMS - RSSGT_ATTR_ARB_MULTISEGMENT_LEVEL_MODE Description changed ("Equal RMS", "ERMS")</p> <p>rsgt_rngROSCSynchronizationBandwidth.RSSGT_VAL_ROSC_SBAN_WIDE - RSSGT_ATTR_REFERENCE_OSCILLATOR_SYNCHRONIZATION_BANDWIDTH Enum name changed ("Wide", "Standard")</p> <p>rsgt_rngROSCSynchronizationBandwidth.RSSGT_VAL_ROSC_SBAN_WIDE - RSSGT_ATTR_REFERENCE_OSCILLATOR_SYNCHRONIZATION_BANDWIDTH Help changed ("Synchronization bandwidth is approx. 250 Hz.", "Synchronization bandwidth is approx. 750 Hz.")</p> <p>rsgt_rngROSCSynchronizationBandwidth.RSSGT_VAL_ROSC_SBAN_WIDE - RSSGT_ATTR_REFERENCE_OSCILLATOR_SYNCHRONIZATION_BANDWIDTH</p>

rsgt Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		Description changed ("Wide", "Standard") rsgt_rngTriggerSour - RSSGT_ATTR_ARB_TRIGGER_SOURCE New items: RSSGT_VAL_TRIGGER_SOURCE_EXTERNAL rsgt_rngTriggerSour - RSSGT_ATTR_ARB_TRIGGER_SOURCE Deleted items: RSSGT_VAL_TRIGGER_SOURCE_NEXT rsgt_rngROSCSynchronizationBandwidth.RSSGT_VAL_ROSC_SBAN_NARROW - RSSGT_ATTR_REFERENCE_OSCILLATOR_SYNCHRONIZATION_BANDWIDTH Help changed ("Synchronization bandwidth is approx. 40 Hz.", "Synchronization bandwidth is approx. 1Hz.") rsgt_rngPULMSource.RSSGT_VAL_PULM_SOURCE_INTERNAL - RSSGT_ATTR_PULM_SOURCE Description changed ("Pulse Generator", "Internal")
1.2.2	01/2015	Modified: Configure ARB Multi Carr.vi - Carrier range change to 1..32 RSSGT_ATTR_ARB_MULTI_CARRIER_CONFLICT - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_DELAY - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_DATA_FILE - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_FREQUENCY - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_PHASE - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_POWER - rep_cap Carrier32 added RSSGT_ATTR_ARB_MULTI_CARRIER_ENABLED - rep_cap Carrier32 added attribute helps corrected
1.2.1	01/2015	Express VI 3.0.1 with the support for QuickDrop SCPI command searcher Bug fixing
1.2.0	11/2014	* Attribute Express VI version 2.5.0 New: Set Frequency And Level.vi RSSGT_ATTR_PATH_COUNT Modified: RSSGT_ATTR_PATH_COUNT RSSGT_ATTR_SYSTEM_SERIAL_PARITY - fixed command Configure ARB Multi Carr.vi - Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_CONFLICT - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_DELAY - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_DATA_FILE - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_FREQUENCY - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_PHASE - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_POWER - rep_cap Carrier0 removed RSSGT_ATTR_ARB_MULTI_CARRIER_ENABLED - rep_cap Carrier0 removed Configure ARB Marker Mode.vi - marker max Configure ARB Marker Divider.vi - marker max Configure ARB Marker Delay.vi - marker max RSSGT_ATTR_ARB_FIX_MARKER_DELAY_TO_CURRENT_RANGE - removed repeated capabilities RSSGT_ATTR_ARB_MARKER_DELAY - removed M3, M4 rep_cap RSSGT_ATTR_ARB_FIXED_MARKER_DELAY_MAXIMUM - removed M3, M4 rep_cap RSSGT_ATTR_ARB_FIXED_MARKER_DELAY_MINIMUM - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_MODE - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_OFF_TIME - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_ON_TIME - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_PATTERN - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_PULSE_DIVIDER - removed M3, M4 rep_cap RSSGT_ATTR_ARB_MARKER_PULSE_FREQUENCY - removed M3, M4 rep_cap Removed: RSSGT_ATTR_IQ_MIMO_FADING_POWER_CORRECTION RSSGT_ATTR_BASEBAND_TRIGGER_INPUT_SLOPE

rsgt Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		RSSGT_ATTR_DATA_INPUT_IMPEDANCE RSSGT_ATTR_DATA_INPUT_THRESHOLD RSSGT_ATTR_INPUT_TRIGGER_SLOPE RSSGT_ATTR_IQ_ANALOG_WIDEBAND_GAIN RSSGT_ATTR_IQ_SWAP RSSGT_ATTR_PULM_DOUBLE_ENABLED RSSGT_ATTR_SYSTEM_EMODE RSSGT_ATTR_TRIGGER_CONTROL_INPUT_IMPEDANCE
1.1.0	06/2014	* Attribute Express VI version 1.40 New VIs: Lock.vi Get Memory Information.vi System Protect.vi Set Date.vi Get Date.vi Set Time.vi Get Time.vi Write ARB Data.vi Read ARB Tag.vi Read ARB File Tag.vi User Corrections subsystem RSSGT_ATTR_USER_PATH RSSGT_ATTR_TIME_ZONE RSSGT_ATTR_TIME_ZONE_CATALOG RSSGT_ATTR_IQ_SWAP RSSGT_ATTR_IQ_SOURCE RSSGT_ATTR_CONNECTOR_CLOCK_IMPEDANCE RSSGT_ATTR_CONNECTOR_CLOCK_SLOPE RSSGT_ATTR_CONNECTOR_TRIGGER_IMPEDANCE RSSGT_ATTR_CONNECTOR_TRIGGER_SLOPE RSSGT_ATTR_IQ_IMPAIRMENTS_SWAP Modified VIs: RSSGT_ATTR_CALIBRATION_ALL - removed synchronization RSSGT_ATTR_CALIBRATION_FREQUENCY_TEMPERATURE - removed synchronization RSSGT_ATTR_CALIBRATION_FREQUENCY - removed synchronization RSSGT_ATTR_CALIBRATION_IQ_MODULATOR_FULL - removed synchronization RSSGT_ATTR_CALIBRATION_IQ_MODULATOR_LOCAL - removed synchronization RSSGT_ATTR_CALIBRATION_IQ_MODULATOR_TEMPERATURE - removed synchronization RSSGT_ATTR_CALIBRATION_LEVEL_TEMPERATURE - removed synchronization RSSGT_ATTR_CALIBRATION_LEVEL - removed synchronization RSSGT_ATTR_CONNECTOR_OPERATION_MODE - added TOUT RSSGT_ATTR_REFERENCE_OSCILLATOR_SOURCE - added synchronization RSSGT_ATTR_ARB_MULTISEGMENT_NEXT_SEGMENT_SOURCE - changed to Read/Write RSSGT_ATTR_IMPEDANCE_DATA_INPUT - renamed to RSSGT_ATTR_DATA_INPUT_IMPEDANCE RSSGT_ATTR_THRESHOLD_DATA_INPUT - renamed to RSSGT_ATTR_DATA_INPUT_THRESHOLD RSSGT_ATTR_BASEBAND_TRIGGER_INPUT_SLOPE - renamed to RSSGT_ATTR_BASEBAND_INPUT_TRIGGER_SLOPE RSSGT_ATTR_IMPEDANCE_TRIGGER_CONTROL_INPUT - renamed to RSSGT_ATTR_TRIGGER_CONTROL_INPUT_IMPEDANCE RSSGT_ATTR_THRESHOLD_TRIGGER_CONTROL_INPUT - renamed to RSSGT_ATTR_TRIGGER_CONTROL_INPUT_THRESHOLD RSSGT_ATTR_TRIGGER_INPUT_SLOPE - renamed to RSSGT_ATTR_INPUT_TRIGGER_SLOPE RSSGT_ATTR_INPUT_CLOCK_IMPEDANCE - removed, use RSSGT_ATTR_CONNECTOR_CLOCK_IMPEDANCE instead

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rsgt Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		RSSGT_ATTR_INPUT_TRIGGER_IMPEDANCE - removed, use RSSGT_ATTR_CONNECTOR_TRIGGER_IMPEDANCE instead
1.0.0	01/2014	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



### **Regional contact**

Europe, Africa, Middle East

+49 89 4129 12345

[customersupport@rohde-schwarz.com](mailto:customersupport@rohde-schwarz.com)

North America

1-888-TEST-RSA (1-888-837-8772)

[customer.support@rsa.rohde-schwarz.com](mailto:customer.support@rsa.rohde-schwarz.com)

Latin America

+1-410-910-7988

[customersupport.la@rohde-schwarz.com](mailto:customersupport.la@rohde-schwarz.com)

Asia/Pacific

+65 65 13 04 88

[customersupport.asia@rohde-schwarz.com](mailto:customersupport.asia@rohde-schwarz.com)

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**Rohde & Schwarz GmbH & Co. KG**

Mühl Dorfstraße 15 | D - 81671 München

Phone + 49 89 4129 - 0 | Fax + 49 89 4129 - 13777

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)