LabWindows/CVI, VXIpnp driver history for the R&S® RTB2000 / RTM3000 / RTA4000 Digital Oscilloscopes

Driver Documentation

Products:

- R&S® RTB2000 / RTM3000 / RTA4000

Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, MATLAB®,VEE, etc.

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ROHDE&SCHWARZ

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1 Supported Instruments

In the following table, the supported R&S 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**
RTB2000	2.400	
RTM2000	6.010	
RTM3000	1.700	
RTA4000	1.700	

2 Getting Started

2.1 LabWindows/CVI driver

The Rohde & Schwarz **rsrtx** Instrument driver can be used in LabWindows/CVI 6 and later. In order to be able to compile an application it is required to add following files to your LabWindows/CVI project:

- *rsrtx.c + rsrtx.h*
- *rsrtx_attributes.c + rsrtx_attributes.h*
- *rsrtx_utility.c + rsrtx_utility.h*
- *rsidr_core.c + rsidr_core.h*
- *rsrtx_callbacks.c*
- *rsrtx.fp + rsrtx.sub*

2.2 VXIplug&play driver in C/C++, LabWindows/CVI

In this case, the compiled source code from LabWindows/CVI driver is used. The compiled ANSI-C libraries exist for Windows XP and newer, 32-bit / 64-bit.

Add the following files to your 32-bit target project:

- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\include\rsrtx.h
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\lib\msc\rsrtx.lib (static)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\Bin\rsrtx_32.dll (dynamic)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsrtx\rsrtx.fp (in CVI only)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsrtx\rsrtx.sub (in CVI only)

Add the following files to your 64-bit target project:

- C:\Program Files\IVI Foundation\VISA\Win64\Include\rsrtx.h
- C:\Program Files\IVI Foundation\VISA\Win64\Lib_x64\msc\rsrtx64.lib (static)
- C:\Program Files\IVI Foundation\VISA\Win64\Bin\rsrtx_64.dll (dynamic)
- C:\Program Files\IVI Foundation\VISA\Win64\rsrtx\rsrtx.fp (in CVI only)
- C:\Program Files\IVI Foundation\VISA\Win64\rsrtx\rsrtx.sub (in CVI only)

2.3 VXIplug&play driver in MATLAB

MATLAB instrument driver **rsrtx.mdd** can be found in:

32-bit driver
C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsrtx\rsrtx.mdd

64-bit driver
C:\Program Files\IVI Foundation\VISA\Win64\rsrtx\rsrtx.mdd

For detailed description on how to use the driver in MATLAB please refer to the Application Note 1MA171 - How to use R&S instrument in MATLAB

2.4 Linux and Mac OS X

To be able to use Rohde & Schwarz **rsrtx** Instrument driver in Linux or Mac OSX, the functioning VISA is required. Then, the process is the same as using LabWindows/CVI driver.

2.5 Additional Help

LabWindows/CVI and VXIplug&play instrument driver contains in addition the instrument driver documentation in compressed HTML format (Windows CHM help file **rsrtx_vxi.chm**) and stored together with the driver sources or in the following folder:

32-bit driver
C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsrtx\rsrtx_vxi.chm

64-bit driver
C:\Program Files\IVI Foundation\VISA\Win64\rsrtx\rsrtx_vxi.chm

3 LabWindows/CVI and VXIplug&play driver history

rsrtx Instrument Driver		
Driver history		
Revision	Date	Note
2.4.0	02/2022	* Added support for RTM3000 / RTA4000 FW 1.700, RTB2000, FW 2.400 * New Core 4.2.1 The core is incompatible with the Cores 3.x. If you work with drivers that use both core 4.x and 3.x, please contact our customer support, we will update your Core 3.x drivers to the newest version. * New: - rsrtx_ConfigureActionsOnTriggerScreenshotDestination - rsrtx_ConfigureActionsOnTriggerSaveWaveformDestination - rsrtx_ConfigureProtocolSPIMOSISource - rsrtx_ConfigureScreenshotExportDestination - rsrtx_ConfigureWaveformExportDestination - rsrtx_BodePlotAutoscale - rsrtx_ConfigureWaveformGeneratorBurstTriggerMode - rsrtx_WaveformGeneratorBurstTriggerSingle - rsrtx_ConfigurePatternGeneratorOutputVoltage * Updated: - rsrtx_ConfigurePeakDetect - Now correctly sets and gets true state - rsrtx_ConfigureHighResolution - Now correctly sets and gets true state - rsrtx_ConfigureWaveformGeneratorSweep - Triangle sweep added - rsrtx_ConfigurePatternGeneratorCounter - Frequency default, help updated * Deleted: - rsrtx_ReadInstrData
1.4.0	04/2020	* New Core 3.7.0 * Added support for RTM3000 / RTA4000 FW 1.600 * New: - Probe Meter (Class) - rsrtx_ConfigureProbeCopyToOffset - rsrtx_ConfigureProbeAttenuatorRTZA15Enabled - rsrtx_ConfigureProbeZeroAdjust - rsrtx_ConfigureProbeSaveZeroAdjust - rsrtx_ConfigureProbeInputVoltageRange - rsrtx_ConfigureProbeBandwidthLimit - rsrtx_ConfigureProbeAudibleOverrange

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		- rsrtx_ConfigureProbeMeasMode - rsrtx_ConfigureProbeACCoupling - rsrtx_ConfigureActionsOnTriggerState - rsrtx_ConfigureActionsOnTrigger - rsrtx_ConfigureAmplitudeTimeMainMeasurement - rsrtx_ConfigureDelayMeasurementMarkerVisible - rsrtx_ConfigureDelayMeasurementDirection - rsrtx_ConfigureAutomaticMeasurementTimeoutAuto - rsrtx_ConfigureAutomaticMeasurementTimeout
1.3.0	01/2020	* New Core 3.6.3 * Added support for RTB2000, FW 2.202, RTM3000, FW 1.550, RTA4000 FW 1.550 * New: - Zoom (Class) - Gate (Class) - SPI (Class) - Mathematics Tracks (Class) - Spectrum Data (Class) - Bode Plot (Class) - Burst (Class) - PWM (Class) - rsrtx_ConfigureHorizontalRecordLength - rsrtx_QueryHorizontalRecordLength - rsrtx_ConfigureMemoryMode - rsrtx_ConfigureRollModeAutomatic - rsrtx_ConfigureRollModeMinimumTimeBase - rsrtx_QueryNumberofAveragesCurrent - rsrtx_ConfigureChannelZeroOffset - rsrtx_ConfigureChannelPosition - rsrtx_ConfigureChannelWaveformColor - rsrtx_ConfigureProbeDegauss - rsrtx_QueryProbeGain - rsrtx_ConfigureProbeGainUnit - rsrtx_ConfigureProbeGainManual - rsrtx_EnableDisplayDateAndTime - rsrtx_ConfigureHistoryChannelPlayerControlEnable - rsrtx_ConfigureHistoryChannelTimeTableEnable - rsrtx_ConfigureHistoryDigitalPlayerControlEnable - rsrtx_ConfigureHistoryDigitalTimeTableEnable - rsrtx_ConfigureHistoryMathPlayerControlEnable - rsrtx_ConfigureHistoryMathTimeTableEnable

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		- rsrtx_ConfigureHistoryProtocolPlayerControlEnable - rsrtx_ConfigureHistoryProtocolTimeTableEnable - rsrtx_QueryHistorySpectrumAcquisitionAbsoluteTime - rsrtx_QueryHistorySpectrumAcquisitionRelativeTime - rsrtx_QueryHistorySpectrumAcquisitionDate - rsrtx_QueryHistorySpectrumAllDates - rsrtx_QueryHistorySpectrumAllTimeDifferences - rsrtx_QueryHistorySpectrumAllDaytimes - rsrtx_ConfigureHistoryLogicPlayerControlEnable - rsrtx_ConfigureHistoryLogicTimeTableEnable - rsrtx_ConfigureCursorSecondSourceSettings - rsrtx_ConfigureMaskSegmentCaptureMode - rsrtx_ConfigureProtocolUARTIdleStatePolarity - rsrtx_QueryProtocolUARTFrameSettings - rsrtx_QueryProtocolUARTRxFrameSettings - rsrtx_QueryProtocolUARTTxFrameSettings - rsrtx_CloseHardcopyDialogs - rsrtx_ConfigureMathWaveformLabel - rsrtx_ConfigureMathWaveformColor - rsrtx_ConfigureReferenceWaveformLabel - rsrtx_ConfigureReferenceWaveformColor - rsrtx_QueryDigitalWaveformSamplesNumber - rsrtx_QuerySpectrumWaveformSamples - rsrtx_QuerySpectrumAverageWaveformSamples - rsrtx_QuerySpectrumMaximumWaveformSamples - rsrtx_QuerySpectrumMinimumWaveformSamples - rsrtx_ConfigurePowerModulationThresholdSettings - rsrtx_QueryPowerSafeOperatingAreaResultAcquisitionViolation - rsrtx_QueryPowerSafeOperatingAreaResultTotalViolation - rsrtx_ConfigureSpectrumFrequencyFullSpan - rsrtx_QuerySpectrumReferenceMarkerFrequency - rsrtx_QuerySpectrumReferenceMarkerLevel - rsrtx_QuerySpectrumMarkerFrequency - rsrtx_QuerySpectrumMarkerFrequencyDelta - rsrtx_QuerySpectrumMarkerLevel - rsrtx_QuerySpectrumMarkerLevelDelta - rsrtx_ConfigureWaveformGeneratorArbitraryRange - rsrtx_ConfigureWaveformGeneratorArbitraryDisplayEnable - rsrtx_ConfigurePatternGeneratorExternalTriggerSlope - rsrtx_QueryLogicProbeConnected - rsrtx_ConfigureLogicPointSelection

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		- rsrtx_QueryLogicWaveformDataPoints - rsrtx_ConfigureCounterSource - rsrtx_ConfigureEthernetHTTPPort - rsrtx_SaveInstrumentSettingsToPC - rsrtx_RecallInstrumentSettingsFromPC - rsrtx_GetAttributeRepCapName - rsrtx_ConfigureAutoSystemErrQuery - rsrtx_ConfigureMultiThreadLocking * Updated: - rsrtx_ConfigureWaveformAcquisitionType - Acquisition Type help updated - rsrtx_ConfigureProbeAttenuationManual - Range limit updated - rsrtx_ConfigureVideoTriggerSource - Parameter Field help updated - rsrtx_QueryProtocolUARTWordValue - Start and End changed to ViReal64, Source upd. - rsrtx_QueryARINC429Status - SCPI command updated, SDI and SSM helps updated - rsrtx_ConfigureHardcopySettings - Filename help updated - rsrtx_HardcopyPrint - SCPI command updated - rsrtx_ConfigureReferenceWaveformSource - Range updated - rsrtx_ConfigurePatternGeneratorFunctionType - Range and help updated - rsrtx_ConfigureCounterState - Removed repeated capability from SCPI command - rsrtx_QueryCounterFrequency - Removed repeated capability from SCPI command - rsrtx_QueryCounterPeriod - Removed repeated capability from SCPI command - rsrtx_ConfigureEthernetIPPort - Range limits added - rsrtx_ConfigureEthernetVXI11Port - Range limits added, SCPI command updated - rsrtx_SetStatusRegister - Added ADC State, range limit added - rsrtx_GetStatusRegister - Added ADC State
1.2.0	01/2018	- Added support for RTM3000 and RTA4000 instruments
1.1.0	10/2017	* First official release * New Subsystems - Configuration >> Digital Channel - History >> Logic - Search >> Export - Protocols >> UART - Protocols >> MILSTD - Simple Mathematics (RTB) - Waveform Acquisition >> Simple Math (RTB) - Waveform Acquisition >> Digital Data - Waveform Acquisition >> Logic - Waveform Export - Generator - Logic

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		- System * New - rsrtx_ConfigureRecordLength - rsrtx_ConfigureAcquireMode - rsrtx_ConfigurePeakDetect - rsrtx_ConfigureHighResolution - rsrtx_NumberofAveragesReset - rsrtx_ConfigureWaveformRateMaximum - rsrtx_ConfigureHorizontalReference - rsrtx_ConfigureProbeCMOffset - rsrtx_ConfigureTriggerOutMode - rsrtx_RuntTriggerRange - rsrtx_ConfigureRuntTriggerWidth - rsrtx_ConfigureRuntTriggerDelta - rsrtx_ConfigureWindowTriggerRange - rsrtx_ConfigureWindowTriggerWidth - rsrtx_ConfigureWindowTriggerTimeRange - rsrtx_ConfigureTimeoutTriggerTime - rsrtx_ConfigureDisplayLanguage - rsrtx_ConfigureDiagramAnnotationState - rsrtx_ConfigureDiagramAnnotationTrack - rsrtx_DisplayClearScreen - rsrtx_ConfigureDisplayPersistenceType - rsrtx_ConfigureDisplaySegmentationRecordMaximumSegments - rsrtx_QueryHistoryChannelTableMode - rsrtx_HistoryChannelExportSave - rsrtx_DigitalHistoryExportSave - rsrtx_HistoryMathExportSave - rsrtx_HistoryProtocolExportSave - rsrtx_ConfigureCursorMeasurementType - rsrtx_ConfigureCursorSource - rsrtx_CursorLineNextPeak - rsrtx_CursorLinePreviousPeak - rsrtx_ConfigureQuickMeasurementState - rsrtx_ConfigureMaskTestActionScreenshotDestination - rsrtx_ConfigureMaskTestActionSavesWaveformDestination - rsrtx_ConfigureMaskTestActionAUXOutputState - rsrtx_ConfigureMaskScaling - rsrtx_ConfigureSearchCondition - rsrtx_ConfigureSearchSource - rsrtx_ConfigureSearchTriggerWindowLevel

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		- rsrtx_ConfigureSearchTriggerWindowDelta - rsrtx_ConfigureSearchTriggerWindowPolarity - rsrtx_ConfigureSearchTriggerWindowRange - rsrtx_ConfigureSearchTriggerWindowTimeRange - rsrtx_ConfigureSearchTriggerWindowWidth - rsrtx_ConfigureProtocolDisplayVertical - rsrtx_ConfigureProtocolSPICSPolarity - rsrtx_ConfigureSPITriggerSource - rsrtx_ConfigureHardcopyOutputFormat - rsrtx_QueryHardcopyData - rsrtx_ConfigureHardcopyPageSize - rsrtx_QueryHardcopyPageSize - rsrtx_ConfigureReferenceWaveformSource - rsrtx_InitiateAcquisitionAndWait - rsrtx_ConfigureAcquisitionState - rsrtx_PowerAnalysisAutoset - rsrtx_PowerAnalysisAutosetCurrent - rsrtx_PowerAnalysisAutosetVoltage - rsrtx_QueryPowerCurrentHarmonicsMeasurementDuration - rsrtx_QueryPowerCurrentHarmonicsMeasurementRealPowerCurrent - rsrtx_ReadPowerSafeOperatingAreaAcquisitionData - rsrtx_FetchPowerSafeOperatingAreaAcquisitionData - rsrtx_FetchPowerSafeOperatingAreaAcquisitionDataHeader - rsrtx_FetchPowerSafeOperatingAreaAcquisitionConversionData - rsrtx_ConfigureSpectrumAnalysisMode - rsrtx_ConfigureSpectrumAnalysisFrequencyCenterSpan - rsrtx_SpectrumMarkerSetupCenterScreen - rsrtx_SpectrumMarkerSetupRangeToPeak - rsrtx_QuerySpectrumReferenceMarkerResults - rsrtx_QuerySpectrumMarkerResults - rsrtx_QuerySpectrumMarkerDeltaResults - rsrtx_QuerySpectrumMarkerAllResults - rsrtx_QuerySpectrumMarkerAllDeltaResults - rsrtx_QueryCounterFrequency - rsrtx_QueryCounterPeriod * Modified - rsrtx_ConfigureChannel - default for coupling changed - rsrtx_ConfigureTrigger - line trigger type added - rsrtx_ConfigureEdgeTriggerFilter - HF Reject added, low removed - rsrtx_ConfigureMeasurementSource - QMA source added - rsrtx_QuerySearchResult - more result types

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		- rsrtx_QueryAllSearchResults - more result types - rsrtx_ConfigureHardcopySettings - new formats, control includeMenuInScreenshot is obsolete - rsrtx_QueryPowerConsumptionMeasurementResults - new results - rsrtx_PowerSafeOperatingAreaLinPointValue - Current added - rsrtx_PowerSafeOperatingAreaLogPointValue - Current added - rsrtx_ConfigureSpectrumAnalysisFrequency removed controls for center and span - rsrtx_ConfigureCounterState - conter range changed - rsrtx_ReadMainWaveformMeasurement - removed some mesurement functions - rsrtx_FetchMainWaveformMeasurement - removed some mesurement functions * Deleted attributes: - RSRTX_ATTR_FILTER_FREQUENCY (Filter Frequency) - RSRTX_ATTR_WAVEFORM_RATE (Waveform Rate) - RSRTX_ATTR_TRIGGER_FILTER_LOW (Trigger Filter Low) - RSRTX_ATTR_ENVELOPE_WAVEFORM_DATA_POINTS (Envelope Waveform Data Points) - RSRTX_ATTR_CURSOR_VOLTAGE_INVERSE_DISTANCE_HORIZONTAL (Cursor Voltage Inverse Distance Horizontal) - RSRTX_ATTR_MAIN_MEASUREMENT_RESULT_TRIGGER_FREQUENCY (Main Measurement Result Trigger Frequency) - RSRTX_ATTR_MAIN_MEASUREMENT_RESULT_TRIGGER_PERIOD (Main Measurement Result Trigger Period) - RSRTX_ATTR_MAIN_MEASUREMENT_RESULT_B_TRIGGER_FREQUENCY (Main Measurement Result B Trigger Frequency) - RSRTX_ATTR_MAIN_MEASUREMENT_RESULT_B_TRIGGER_PERIOD (Main Measurement Result B Trigger Period) - RSRTX_ATTR_PERSISTENCE_TIME_AUTO (Persistence Time Auto) - RSRTX_ATTR_HARDCOPY_INCLUDE_MENU_IN_SCREENSHOT (Hardcopy Include Menu In Screenshot) * New attributes: - RSRTX_ATTR_ID_QUERY_RESPONSE (ID Query Response) - RSRTX_ATTR_RECORD_LENGTH_AUTOMATIC (Record Length Automatic) - RSRTX_ATTR_RECORD_LENGTH (Record Length) - RSRTX_ATTR_ACQUIRE_MODE (Acquire Mode) - RSRTX_ATTR_PEAK_DETECT (Peak Detect) - RSRTX_ATTR_HIGH_RESOLUTION (High Resolution) - RSRTX_ATTR_NUM_AVERAGES_RESET (Number of Averages Reset) - RSRTX_ATTR_WAVEFORM_RATE_MAXIMUM (Waveform Rate Maximum) - RSRTX_ATTR_PROBE_CM_OFFSET (Probe CM Offset) - RSRTX_ATTR_DIGITAL_PROBE_ENABLED (Digital Probe Enabled) - RSRTX_ATTR_DIGITAL_POINT_SELECTION (Digital Point Selection) - RSRTX_ATTR_LOGIC_STATE (Logic State) - RSRTX_ATTR_LOGIC_TYPE (Logic Type)

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		- RSRTX_ATTR_LOGIC_THRESHOLD (Logic Threshold) - RSRTX_ATTR_LOGIC_THRESHOLD_USER_LEVEL (Logic Threshold User Level) - RSRTX_ATTR_LOGIC_HYSTERESIS (Logic Hysteresis) - RSRTX_ATTR_LOGIC_ARITHMETICS (Logic Arithmetics) - RSRTX_ATTR_LOGIC_CURRENT_MAXIMUM (Logic Current Maximum) - RSRTX_ATTR_LOGIC_CURRENT_MINIMUM (Logic Current Minimum) - RSRTX_ATTR_TRIGGER_FILTER_HF_REJECT (Trigger Filter HF Reject) - RSRTX_ATTR_TRIGGER_WINDOW_RANGE (Trigger Window Range) - RSRTX_ATTR_TRIGGER_WINDOW_WIDTH (Trigger Window Width) - RSRTX_ATTR_TRIGGER_WINDOW_TIME_RANGE (Trigger Window Time Range) - RSRTX_ATTR_RUNT_TRIGGER_WIDTH (Runt Trigger Width) - RSRTX_ATTR_RUNT_TRIGGER_DELTA (Runt Trigger Delta) - RSRTX_ATTR_RUNT_TRIGGER_RANGE (Runt Trigger Range) - RSRTX_ATTR_TIMEOUT_TRIGGER_TIME (Timeout Trigger Time) - RSRTX_ATTR_TIMEOUT_TRIGGER_RANGE (Timeout Trigger Range) - RSRTX_ATTR_PROTOCOL_SPI_TRIGGER_SOURCE (Protocol SPI Trigger Source) - RSRTX_ATTR_PROTOCOL_UART_TRIGGER_SOURCE (Protocol UART Trigger Source) - RSRTX_ATTR_MILSTD_TRIGGER_MODE (MILSTD Trigger Mode) - RSRTX_ATTR_MILSTD_TRIGGER_FRAME (MILSTD Trigger Frame) - RSRTX_ATTR_ACQUISITION_STATE (Acquisition State) - RSRTX_ATTR_WAVEFROM_EXPORT_NAME (Wavefrom Export Name) - RSRTX_ATTR_WAVEFORM_EXPORT_SOURCE (Waveform Export Source) - RSRTX_ATTR_WAVEFORM_EXPORT_SAVE (Waveform Export Save) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_CONVERSION_X_START (Simple Math Waveform Conversion X Start) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_CONVERSION_X_INCREMENT (Simple Math Waveform Conversion X Increment) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_CONVERSION_Y_START (Simple Math Waveform Conversion Y Start) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_CONVERSION_Y_INCREMENT (Simple Math Waveform Conversion Y Increment) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_CONVERSION_Y_RESOLUTION (Simple Math Waveform Conversion Y Resolution) - RSRTX_ATTR_LOGIC_DATA_CONVERSION_X_START (Logic Data Conversion X Start) - RSRTX_ATTR_LOGIC_DATA_CONVERSION_X_INCREMENT (Logic Data Conversion X Increment) - RSRTX_ATTR_LOGIC_DATA_CONVERSION_Y_START (Logic Data Conversion Y Start) - RSRTX_ATTR_LOGIC_DATA_CONVERSION_Y_INCREMENT (Logic Data Conversion Y Increment) - RSRTX_ATTR_LOGIC_DATA_CONVERSION_Y_RESOLUTION (Logic Data Conversion Y Resolution) - RSRTX_ATTR_DIGITAL_DATA_CONVERSION_X_START (Digital Data Conversion X Start) - RSRTX_ATTR_DIGITAL_DATA_CONVERSION_X_INCREMENT (Digital Data Conversion X Increment) - RSRTX_ATTR_DIGITAL_DATA_CONVERSION_Y_START (Digital Data Conversion Y Start) - RSRTX_ATTR_DIGITAL_DATA_CONVERSION_Y_INCREMENT (Digital Data Conversion Y Increment) - RSRTX_ATTR_DIGITAL_DATA_CONVERSION_Y_RESOLUTION (Digital Data Conversion Y

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		Resolution) - RSRTX_ATTR_CURSOR_LINE_NEXT_PEAK (Cursor Line Next Peak) - RSRTX_ATTR_CURSOR_LINE_PREVIOUS_PEAK (Cursor Line Previous Peak) - RSRTX_ATTR_QUICK_MEASUREMENT_STATE (Quick Measurement State) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_ENABLED (Simple Math Waveform Enabled) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_POSITION (Simple Math Waveform Position) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_VERTICAL_SCALE (Simple Math Waveform Vertical Scale) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_OPERATION (Simple Math Waveform Operation) - RSRTX_ATTR_SIMPLE_MATH_WAVEFORM_SOURCE (Simple Math Waveform Source) - RSRTX_ATTR_MASK_TEST_ACTION_SCREENSHOT_DESTINATION (Mask Test Action Screenshot Destination) - RSRTX_ATTR_MASK_TEST_ACTION_SAVES_WAVEFORM_DESTINATION (Mask Test Action Saves Waveform Destination) - RSRTX_ATTR_MASK_TEST_ACTION_AUX_OUTPUT_ENABLED (Mask Test Action AUX Output Enabled) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_LEVEL_LOWER (Search Trigger Window Level Lower) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_LEVEL_UPPER (Search Trigger Window Level Upper) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_DELTA (Search Trigger Window Delta) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_POLARITY (Search Trigger Window Polarity) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE (Search Trigger Window Range) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_TIME_RANGE (Search Trigger Window Time Range) - RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_WIDTH (Search Trigger Window Width) - RSRTX_ATTR_SEARCH_EXPORT_NAME (Search Export Name) - RSRTX_ATTR_SEARCH_EXPORT_SAVE (Search Export Save) - RSRTX_ATTR_PROTOCOL_SPI_CS_POLARITY (Protocol SPI CS Polarity) - RSRTX_ATTR_PROTOCOL_UART_FRAME_COUNT (Protocol UART Frame Count) - RSRTX_ATTR_PROTOCOL_UART_WORD_COUNT (Protocol UART Word Count) - RSRTX_ATTR_PROTOCOL_UART_WORD_VALUE (Protocol UART Word Value) - RSRTX_ATTR_PROTOCOL_UART_WORD_START (Protocol UART Word Start) - RSRTX_ATTR_PROTOCOL_UART_WORD_END (Protocol UART Word End) - RSRTX_ATTR_PROTOCOL_UART_WORD_ENABLED (Protocol UART Word Enabled) - RSRTX_ATTR_PROTOCOL_UART_WORD_SOURCE (Protocol UART Word Source) - RSRTX_ATTR_PROTOCOL_MILSTD_INTER_MESSAGE_GAP_TIME_INFINITE (Protocol MILSTD Inter Message Gap Time Infinite) - RSRTX_ATTR_PROTOCOL_MILSTD_INTER_MESSAGE_GAP_TIME_MINIMUM (Protocol MILSTD Inter Message Gap Time Minimum) - RSRTX_ATTR_PROTOCOL_MILSTD_INTER_MESSAGE_GAP_TIME_MAXIMUM (Protocol MILSTD Inter Message Gap Time Maximum) - RSRTX_ATTR_PROTOCOL_MILSTD_RESPONSE_TIME_INFINITE (Protocol MILSTD Response Time Infinite) - RSRTX_ATTR_PROTOCOL_MILSTD_RESPONSE_TIME_MINIMUM (Protocol MILSTD Response Time Minimum) - RSRTX_ATTR_PROTOCOL_MILSTD_RESPONSE_TIME_MAXIMUM (Protocol MILSTD Response

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		- RSRTX_ATTR_POWER_SAFE_OPERATING_AREA_RESULT_ACQUISITION_CURRENT_DATA_CONVERSION_Y_INCREMENT (Power Safe Operating Area Result Acquisition Current Data Conversion Y Increment) - RSRTX_ATTR_POWER_SAFE_OPERATING_AREA_RESULT_ACQUISITION_CURRENT_DATA_CONVERSION_Y_RESOLUTION (Power Safe Operating Area Result Acquisition Current Data Conversion Y Resolution) - RSRTX_ATTR_SPECTRUM_ANALYSIS_MODE (Spectrum Analysis Mode) - RSRTX_ATTR_SPECTRUM_MARKER_SETUP_CENTER_SCREEN (Spectrum Marker Setup Center Screen) - RSRTX_ATTR_SPECTRUM_MARKER_SETUP_RANGE_TO_PEAK (Spectrum Marker Setup Range To Peak) - RSRTX_ATTR_WAVEFORM_GENERATOR_FUNCTION_TYPE (Waveform Generator Function Type) - RSRTX_ATTR_WAVEFORM_GENERATOR_FREQUENCY (Waveform Generator Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_PULSE_DUTY_CYCLE (Waveform Generator Pulse Duty Cycle) - RSRTX_ATTR_WAVEFORM_GENERATOR_PULSE_EDGE_TIME (Waveform Generator Pulse Edge Time) - RSRTX_ATTR_WAVEFORM_GENERATOR_RAMP_POLARITY (Waveform Generator Ramp Polarity) - RSRTX_ATTR_WAVEFORM_GENERATOR_EXPONENTIAL_POLARITY (Waveform Generator Exponential Polarity) - RSRTX_ATTR_WAVEFORM_GENERATOR_MODULATION_ENABLED (Waveform Generator Modulation Enabled) - RSRTX_ATTR_WAVEFORM_GENERATOR_MODULATION_TYPE (Waveform Generator Modulation Type) - RSRTX_ATTR_WAVEFORM_GENERATOR_MODULATION_FUNCTION_TYPE (Waveform Generator Modulation Function Type) - RSRTX_ATTR_WAVEFORM_GENERATOR_MODULATION_RAMP_POLARITY (Waveform Generator Modulation Ramp Polarity) - RSRTX_ATTR_WAVEFORM_GENERATOR_AM_MODULATION_FREQUENCY (Waveform Generator AM Modulation Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_AM_MODULATION_DEPTH (Waveform Generator AM Modulation Depth) - RSRTX_ATTR_WAVEFORM_GENERATOR_FM_MODULATION_FREQUENCY (Waveform Generator FM Modulation Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_FM_MODULATION_FREQUENCY_DEVIATION (Waveform Generator FM Modulation Frequency Deviation) - RSRTX_ATTR_WAVEFORM_GENERATOR_ASK_MODULATION_FREQUENCY (Waveform Generator ASK Modulation Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_ASK_MODULATION_DEPTH (Waveform Generator ASK Modulation Depth) - RSRTX_ATTR_WAVEFORM_GENERATOR_FSK_MODULATION_HOPPING_FREQUENCY (Waveform Generator FSK Modulation Hopping Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_FSK_MODULATION_RATE (Waveform Generator FSK Modulation Rate) - RSRTX_ATTR_WAVEFORM_GENERATOR_SWEEP_ENABLED (Waveform Generator Sweep

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		Enabled) - RSRTX_ATTR_WAVEFORM_GENERATOR_SWEEP_TYPE (Waveform Generator Sweep Type) - RSRTX_ATTR_WAVEFORM_GENERATOR_SWEEP_START_FREQUENCY (Waveform Generator Sweep Start Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_SWEEP_STOP_FREQUENCY (Waveform Generator Sweep Stop Frequency) - RSRTX_ATTR_WAVEFORM_GENERATOR_SWEEP_TIME (Waveform Generator Sweep Time) - RSRTX_ATTR_WAVEFORM_GENERATOR_ARBITRARY_FILE_NAME (Waveform Generator Arbitrary File Name) - RSRTX_ATTR_WAVEFORM_GENERATOR_ARBITRARY_OPEN_FILE (Waveform Generator Arbitrary Open File) - RSRTX_ATTR_WAVEFORM_GENERATOR_ARBITRARY_SOURCE (Waveform Generator Arbitrary Source) - RSRTX_ATTR_WAVEFORM_GENERATOR_ARBITRARY_UPDATE (Waveform Generator Arbitrary Update) - RSRTX_ATTR_WAVEFORM_GENERATOR_OUTPUT_ENABLED (Waveform Generator Output Enabled) - RSRTX_ATTR_WAVEFORM_GENERATOR_OUTPUT_AMPLITUDE (Waveform Generator Output Amplitude) - RSRTX_ATTR_WAVEFORM_GENERATOR_OUTPUT_OFFSET (Waveform Generator Output Offset) - RSRTX_ATTR_WAVEFORM_GENERATOR_OUTPUT_USER_LOAD (Waveform Generator Output User Load) - RSRTX_ATTR_WAVEFORM_GENERATOR_OUTPUT_DESTINATION (Waveform Generator Output Destination) - RSRTX_ATTR_WAVEFORM_GENERATOR_NOISE_LEVEL_PERCENT (Waveform Generator Noise Level Percent) - RSRTX_ATTR_WAVEFORM_GENERATOR_NOISE_ABSOLUTE_LEVEL (Waveform Generator Noise Absolute Level) - RSRTX_ATTR_PATTERN_GENERATOR_ENABLED (Pattern Generator Enabled) - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE (Pattern Generator Function Type) - RSRTX_ATTR_PATTERN_GENERATOR_FREQUENCY (Pattern Generator Frequency) - RSRTX_ATTR_PATTERN_GENERATOR_PERIOD (Pattern Generator Period) - RSRTX_ATTR_PATTERN_GENERATOR_POLARITY (Pattern Generator Polarity) - RSRTX_ATTR_PATTERN_GENERATOR_DUTY_CYCLE (Pattern Generator Duty Cycle) - RSRTX_ATTR_PATTERN_GENERATOR_SAMPLE_TIME (Pattern Generator Sample Time) - RSRTX_ATTR_PATTERN_GENERATOR_COUNTER_DIRECTION (Pattern Generator Counter Direction) - RSRTX_ATTR_PATTERN_GENERATOR_COUNTER_FREQUENCY (Pattern Generator Counter Frequency) - RSRTX_ATTR_PATTERN_GENERATOR_BURST_ENABLED (Pattern Generator Burst Enabled) - RSRTX_ATTR_PATTERN_GENERATOR_BURST_CYCLES (Pattern Generator Burst Cycles) - RSRTX_ATTR_PATTERN_GENERATOR_IDLE_TIME (Pattern Generator Idle Time) - RSRTX_ATTR_PATTERN_GENERATOR_TRIGGER_MODE (Pattern Generator Trigger Mode) - RSRTX_ATTR_PATTERN_GENERATOR_TRIGGER_RUN_SINGLE (Pattern Generator Trigger Run Single)

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		- RSRTX_ATTR_PATTERN_GENERATOR_ARB_PATTERN_LENGTH (Pattern Generator ARB Pattern Length) - RSRTX_ATTR_PATTERN_GENERATOR_ARB_INDEX (Pattern Generator ARB Index) - RSRTX_ATTR_PATTERN_GENERATOR_MANUAL_STATE (Pattern Generator Manual State) - RSRTX_ATTR_DIAGRAM_ANNOTATION_ENABLED (Diagram Annotation Enabled) - RSRTX_ATTR_DIAGRAM_ANNOTATION_TRACK (Diagram Annotation Track) - RSRTX_ATTR_DISPLAY_CLEAR_SCREEN (Display Clear Screen) - RSRTX_ATTR_PERSISTENCE_TYPE (Persistence Type) - RSRTX_ATTR_HISTORY_CHANNEL_TABLE_MODE (History Channel Table Mode) - RSRTX_ATTR_HISTORY_CHANNEL_EXPORT_NAME (History Channel Export Name) - RSRTX_ATTR_HISTORY_CHANNEL_EXPORT_SAVE (History Channel Export Save) - RSRTX_ATTR_DIGITAL_HISTORY_EXPORT_NAME (Digital History Export Name) - RSRTX_ATTR_DIGITAL_HISTORY_EXPORT_SAVE (Digital History Export Save) - RSRTX_ATTR_HISTORY_MATH_EXPORT_NAME (History Math Export Name) - RSRTX_ATTR_HISTORY_MATH_EXPORT_SAVE (History Math Export Save) - RSRTX_ATTR_HISTORY_PROTOCOL_EXPORT_NAME (History Protocol Export Name) - RSRTX_ATTR_HISTORY_PROTOCOL_EXPORT_SAVE (History Protocol Export Save) - RSRTX_ATTR_HISTORY_LOGIC_CURRENT_ACQUISITION (History Logic Current Acquisition) - RSRTX_ATTR_HISTORY_LOGIC_PLAYER (History Logic Player) - RSRTX_ATTR_HISTORY_LOGIC_START_ACQUISITION (History Logic Start Acquisition) - RSRTX_ATTR_HISTORY_LOGIC_STOP_ACQUISITION (History Logic Stop Acquisition) - RSRTX_ATTR_HISTORY_LOGIC_PLAY_ALL (History Logic Play All) - RSRTX_ATTR_HISTORY_LOGIC_SPEED (History Logic Speed) - RSRTX_ATTR_HISTORY_LOGIC_REPEAT (History Logic Repeat) - RSRTX_ATTR_HISTORY_LOGIC_ACQUISITON_RELATIVE_TIME (History Logic Acquisiton Relative Time) - RSRTX_ATTR_HISTORY_LOGIC_ALL_DATES (History Logic All Dates) - RSRTX_ATTR_HISTORY_LOGIC_ALL_TIME_DIFFERENCES (History Logic All Time Differences) - RSRTX_ATTR_HISTORY_LOGIC_ALL_DAYTIMES (History Logic All Daytimes) - RSRTX_ATTR_HISTORY_LOGIC_EXPORT_NAME (History Logic Export Name) - RSRTX_ATTR_HISTORY_LOGIC_EXPORT_SAVE (History Logic Export Save) - RSRTX_ATTR_SEGMENTATION_RECORD_MAXIMUM_SEGMENTS (Segmentation Record Maximum Segments) - RSRTX_ATTR_HARDCOPY_OUTPUT_FORMAT (Hardcopy Output Format) - RSRTX_ATTR_HARDCOPY_PAGE_SIZE_X (Hardcopy Page Size X) - RSRTX_ATTR_HARDCOPY_PAGE_SIZE_Y (Hardcopy Page Size Y) - RSRTX_ATTR_DEVICE_MODE (Device Mode) - RSRTX_ATTR_INTERFACE_SELECT (Interface Select) - RSRTX_ATTR_USB_CLASS (USB Class) - RSRTX_ATTR_ETHERNET_DHCP (Ethernet DHCP) - RSRTX_ATTR_ETHERNET_IP_PORT (Ethernet IP Port) - RSRTX_ATTR_ETHERNET_VXI11_PORT (Ethernet VXI11 Port)

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		- RSRTX_ATTR_ETHERNET_TRANSFER (Ethernet Transfer) - RSRTX_ATTR_ETHERNET_MAC_ADDRESS (Ethernet MAC Address) - RSRTX_ATTR_PRESET_EDUCATION (Preset Education) - RSRTX_ATTR_DEVICE_FOOTPRINT (Device Footprint) * Modified attributes: - RSRTX_ATTR_HORZ_DIVISIONS (Horizontal Divisions) - Data type changed. - RSRTX_ATTR_HORZ_REFERENCE (Horizontal Reference) - Range - RSRTX_ATTR_VERTICAL_COUPLING (Vertical Coupling) - Default changed. - RSRTX_ATTR_DIGITAL_HYSTERESIS (Digital Hysteresis) - Changed range values. - RSRTX_ATTR_DIGITAL_VERTICAL_CHANNEL_SIZE (Digital Vertical Channel Size) - Changed from enum to real. - RSRTX_ATTR_TRIGGER_LEVEL_B (Trigger Level B) - Range table removed. - RSRTX_ATTR_TRIGGER_COUPLING (Trigger Coupling) - Command string changed - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_MINIMUM (Protocol Audio Trigger Right Minimum) - Range table removed. - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_MAXIMUM (Protocol Audio Trigger Right Maximum) - Range table removed. - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_MINIMUM (Protocol Audio Trigger Left Minimum) - Range table removed. - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_MAXIMUM (Protocol Audio Trigger Left Maximum) - Range table removed. - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_MINIMUM (Protocol Audio Trigger Channel Minimum) - Range table removed. - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_MAXIMUM (Protocol Audio Trigger Channel Maximum) - Range table removed. - RSRTX_ATTR_CURSOR_MEASUREMENT_TYPE (Cursor Measurement Type) - HorizontalVertical - RSRTX_ATTR_CURSOR_SOURCE (Cursor Source) - QMA - RSRTX_ATTR_MASK_VERTICAL_OFFSET (Mask Vertical Offset) - removede range - RSRTX_ATTR_MASK_VERTICAL_SCALING (Mask Vertical Scaling) - removed range - RSRTX_ATTR_MASK_VERTICAL_WIDTH (Mask Vertical Width) - Removed range - RSRTX_ATTR_MASK_HORIZONTAL_WIDTH (Mask Horizontal Width) - removed range. - RSRTX_ATTR_PROTOCOL_DISPLAY_VERTICAL (Protocol Display Vertical) - Default, range changed. - RSRTX_ATTR_HARDCOPY_COLOR_SCHEME (Hardcopy Color Scheme) - Short command modified. * Deleted Repeated Capabilities: * Modified Repeated Capabilities: - Counter - Identifiers ("Counter0,Counter1,Counter2", "Counter1,Counter2") - Counter - Command Values (",1,2", "1,2") * Modified Range Tables: - rsrtx_rngHorzReference - RSRTX_ATTR_HORZ_REFERENCE

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		Range changed to <8.33;91.67> - rsrtx_rngLineNumber - RSRTX_ATTR_TV_TRIGGER_LINE_NUMBER Range changed to <1;1125> - rsrtx_rngCursorFunction - RSRTX_ATTR_CURSOR_MEASUREMENT_TYPE New items: RSRTX_VAL_CURSOR_HVER - rsrtx_rngWaveformParameter - RSRTX_ATTR_WAVEFORM_EXPORT_SOURCE, RSRTX_ATTR_CURSOR_SOURCE, RSRTX_ATTR_REFERENCE_WAVEFORM_SOURCE New items: RSRTX_VAL_WAV_QMA, RSRTX_VAL_WAV_XY1 - rsrtx_rngLanguage - RSRTX_ATTR_DISPLAY_LANGUAGE New items: RSRTX_VAL_DISPLAY_ITALIAN, RSRTX_VAL_DISPLAY_PORTUGUESE, RSRTX_VAL_DISPLAY_CZECH, RSRTX_VAL_DISPLAY_POLISH - rsrtx_rngHardcopyDeviceLang - RSRTX_ATTR_HARDCOPY_DEVICE_LANGUAGE_OUTPUT_FORMAT New items: RSRTX_VAL_HARDCOPY_DEVICE_LANG_GDI, RSRTX_VAL_HARDCOPY_DEVICE_LANG_GIF - rsrtx_rngPageSize - RSRTX_ATTR_HARDCOPY_PAGE_SIZE New items: RSRTX_VAL_PAGE_LEGAL, RSRTX_VAL_PAGE_LETTER - rsrtx_rngTriggerCoupling.RSRTX_VAL_COUPLING_HIGHFREQ - RSRTX_ATTR_TRIGGER_COUPLING Command changed ("LFR", "HF") - rsrtx_rngTriggerType - RSRTX_ATTR_TRIGGER_TYPE_A New items: RSRTX_VAL_LINE_TRIGGER - rsrtx_rngProtocolVertical - RSRTX_ATTR_PROTOCOL_DISPLAY_VERTICAL Range changed to <-5;5> - rsrtx_rngSearchCondition - RSRTX_ATTR_SEARCH_CONDITION New items: RSRTX_VAL_SEARCHCOND_WINDOW - rsrtx_rngSearchSource - RSRTX_ATTR_SEARCH_SOURCE, RSRTX_ATTR_SEARCH_TRIGGER_D2C_CLOCK_SOURCE New items: RSRTX_VAL_MEASUREMENT_SOURCE_QMA - rsrtx_rngDigitalHysteresis - RSRTX_ATTR_DIGITAL_HYSTERESIS New items: RSRTX_VAL_DIGITAL_HYSTERESIS_SMALL, RSRTX_VAL_DIGITAL_HYSTERESIS_MEDIUM, RSRTX_VAL_DIGITAL_HYSTERESIS_LARGE - rsrtx_rngDigitalHysteresis - RSRTX_ATTR_DIGITAL_HYSTERESIS Deleted items: RSRTX_VAL_DIGITAL_HYSTERESIS_MAX, RSRTX_VAL_DIGITAL_HYSTERESIS_ROB, RSRTX_VAL_DIGITAL_HYSTERESIS_NORM - rsrtx_rngTriggerOutMode - RSRTX_ATTR_TRIGGER_OUT_MODE New items: RSRTX_VAL_TRIGGER_OUT_MODE_REF, RSRTX_VAL_TRIGGER_OUT_MODE_GEN - rsrtx_rngMeasurementSource - New items: RSRTX_VAL_MEASUREMENT_SOURCE_QMA - rsrtx_rngMILSTDCodeType.RSRTX_VAL_MILSTD_CODE_TYPE_SEL - RSRTX_ATTR_MILSTD_TRIGGER_COMMAND_MODE_CODE, RSRTX_ATTR_MILSTD_SEARCH_COMMAND_MODE_CODE,

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		RSRTX_ATTR_PROTOCOL_MILSTD_COMMAND_WORD_MODE_CODE_TYPE Command changed ("ISEL", "SEL") - rsrtx_rngMILSTDTriggerType - RSRTX_ATTR_MILSTD_TRIGGER_TYPE, RSRTX_ATTR_MILSTD_TRIGGER_MODE New items: RSRTX_VAL_MILSTD_TRIGGER_TYPE_CDATA - rsrtx_rngProbeInputImpedance.RSRTX_VAL_UNKNOWN - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("UNKN", "UNKNown") - rsrtx_rngProbeInputImpedance.RSRTX_VAL_50OHM - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("50OH", "50OHm") - rsrtx_rngProbeInputImpedance.RSRTX_VAL_1MOHM - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("1MOH", "1MOHm")
1.0.0	02/2017	* First Beta Version created based on the RsRtm20xx driver

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.

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- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system

Certified Quality System
ISO 9001

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