

# LabVIEW driver history for the R&S® I/Q UWB Modulation Signal Generators Driver Documentation

## Products:

| R&S® AFQ100A



| R&S® AFQ100B



Driver history for LabVIEW

# Table of Contents

<b>2</b>	<b>Supported Instruments.....</b>	<b>3</b>
<b>3</b>	<b>Getting Started .....</b>	<b>4</b>
<b>4</b>	<b>LabVIEW History .....</b>	<b>5</b>

## 2 Supported Instruments

In the following table the supported R&S 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>
AFQ100A	2.09	
AFQ100B	2.09	

## 3 Getting Started

This instrument driver is a dll-based LabVIEW driver. In order to use this driver as a standard LabVIEW driver, please copy the contents of

**"c:\Program Files (x86)\IVI Foundation\VISA\GWin95\rsafq"** (32-bit Windows)

**"c:\Program Files\IVI Foundation\VISA\GWin64\rsafq"** (64-bit Windows)

directory into your LabVIEW directory

**"c:\Program Files\National Instruments\LabVIEW 2010\instr.lib\rsafq"**

After restart of LabVIEW, the driver will then be directly accessible from the LabVIEW Instrument Driver function palette menu.

## 4 LabVIEW History

rsafq Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
2.09.02	04/2015	Added 64-bit version Added baseband output to: RSAFQ Set Active Output.vi RSAFQ Get Active Output.vi
2.09.01	10/2008	Driver update for FW 2.09 New functions: rsafq_ARBWaveformResample rsafq_GetARBWaveformResampleFrequency rsafq_SetTSIGSampleClock rsafq_GetTSIGSampleClock rsafq_ConfigureTSIGSine rsafq_GetTSIGSineResultingFrequency rsafq_GenerateTSIGSine rsafq_SetTSIGSineSamplesPerPeriod rsafq_GetTSIGSineSamplesPerPeriod rsafq_SetTSIGSinePhaseOffsetQ rsafq_GetTSIGSinePhaseOffsetQ rsafq_ConfigureTSIGRectangular rsafq_GenerateTSIGRectangular rsafq_SetTSIGRectangularSamplesPerPeriod rsafq_GetTSIGRectangularSamplesPerPeriod rsafq_SetTSIGRectangularAmplitude rsafq_GetTSIGRectangularAmplitude rsafq_SetTSIGRectangularOffset rsafq_GetTSIGRectangularOffset rsafq_ConfigureTSIGTableSineCommon rsafq_ConfigureTSIGTableSine rsafq_GetTSIGTableSineResultingFrequency rsafq_GenerateTSIGTableSine rsafq_SetTSIGTableSineLength rsafq_GetTSIGTableSineLength rsafq_SetTSIGTableSineOffset rsafq_GetTSIGTableSineOffset rsafq_SetTSIGTableSinePeriods rsafq_GetTSIGTableSinePeriods rsafq_SetTSIGTableSineAmplitude rsafq_GetTSIGTableSineAmplitude rsafq_SetTSIGTableSinePhase

rsafq Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsafq_GetTSIGTableSinePhase rsafq_ConfigureTSIGPattern rsafq_GenerateTSIGPattern rsafq_SetTSIGPatternI rsafq_GetTSIGPatternI rsafq_SetTSIGPatternQ rsafq_GetTSIGPatternQ rsafq_SetTriggerCount rsafq_GetTriggerCount rsafq_SetSegmentTriggerCount rsafq_GetSegmentTriggerCount rsafq_SetMarkerList rsafq_GetMarkerList rsafq_GetClockWidebandMode rsafq_SetROSCDelay rsafq_GetROSCDelay rsafq_SetDigitalOutputClockSlope rsafq_GetDigitalOutputClockSlope rsafq_CalibrationAnalogOutputDelay Modified functions: rsafq_ConfigureMarkerMode rsafq_SetMarkerMode rsafq_GetMarkerMode rsafq_SetAnalogOutputType rsafq_GetAnalogOutputType rsafq_SetAnalogOutputUnbalancedAmplitude rsafq_GetAnalogOutputUnbalancedAmplitude rsafq_SetAnalogOutputUnbalancedIOffset rsafq_GetAnalogOutputUnbalancedIOffset rsafq_SetAnalogOutputUnbalancedQOffset rsafq_GetAnalogOutputUnbalancedQOffset rsafq_revision_query
2.04.00	04/2007	Driver update for AFQ100A Firmware 2.04  Added support for transfer of huge files to AFQ: rsafq_writeHugeFileStart rsafq_contHugeFile  New functions: rsafq_SetNextWaveformSegmentMode rsafq_GetNextWaveformSegmentMode

rsafq Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsafq_SetROSCSynchronizationMode rsafq_GetROSCSynchronizationMode rsafq_DIAGnosticModules rsafq_optionCheckState Modified functions: rsafq_writeFromFile rsafq_ConfigureSegmentTrigger rsafq_defaultInstrSetup rsafq_ConfigureAnalogOutput rsafq_SetAnalogOutputUnbalancedAmplitude rsafq_GetAnalogOutputUnbalancedAmplitude rsafq_SetAnalogOutputBalancedAmplitude rsafq_GetAnalogOutputBalancedAmplitude rsafq_ConfigureDigitalOutput rsafq_SetARBState rsafq_GetARBState rsafq_SetMultiSegmentTriggerMode rsafq_GetMultiSegmentTriggerMode rsafq_SetDigitalOutputClockRate (returns Function not supported) rsafq_GetDigitalOutputClockRate (returns Function not supported) rsafq_SetDigitalOutputClockSource (returns Function not supported) rsafq_GetDigitalOutputClockSource (returns Function not supported) rsafq_SetAnalogOutputImpedance (returns Function not supported) rsafq_GetAnalogOutputImpedance (returns Function not supported) rsafq_DEvicePreset (returns Function not supported) Removed functions: rsafq_SetSYSTEMdate rsafq_GetSYSTEMdate rsafq_SetSYSTEMTime rsafq_GetSYSTEMTime
1.0	09/2006	Initial revision

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



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