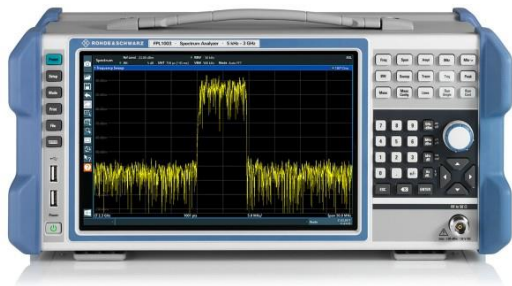


# LabWindows/CVI, VXIplug driver history for the R&S® FPL1000 Spectrum Analyzer

## Products:

| R&S® FPL1000



| R&S® ZNL (Option B1)



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

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# 1 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>
FPL1000	1.90	
ZNL (Option B1)	1.35	

## 2 Getting Started

### 2.1 LabWindows/CVI driver

The Rohde & Schwarz **rsfpl** 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:

- *rsfpl.c + rsfpl.h*
- *rsfpl\_attributes.c + rsfpl\_attributes.h*
- *rsfpl\_utility.c + rsfpl\_utility.h*
- *rsidr\_core.c + rsidr\_core.h*
- *rsfpl\_callbacks.c*
- *rsfpl.fp + rsfpl.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\rsfpl.h
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\lib\msc\rsfpl.lib (static)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\Bin\rsfpl\_32.dll (dynamic)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfpl\rsfpl.fp (in CVI only)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfpl\rsfpl.sub (in CVI only)

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

- C:\Program Files\IVI Foundation\VISA\Win64\Include\rsfpl.h
- C:\Program Files\IVI Foundation\VISA\Win64\Lib\_x64\msc\rsfpl64.lib (static)
- C:\Program Files\IVI Foundation\VISA\Win64\Bin\rsfpl\_64.dll (dynamic)
- C:\Program Files\IVI Foundation\VISA\Win64\rsfpl\rsfpl.fp (in CVI only)
- C:\Program Files\IVI Foundation\VISA\Win64\rsfpl\rsfpl.sub (in CVI only)

## 2.3 VXIplug&play driver in MATLAB

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

32-bit driver

**C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfpl\rsfpl.mdd**

64-bit driver

**C:\Program Files\IVI Foundation\VISA\Win64\rsfpl\rsfpl.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 **rsfpl** 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 **rsfpl\_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\rsfpl\rsfpl\_vxi.chm**

64-bit driver

**C:\Program Files\IVI Foundation\VISA\Win64\rsfpl\rsfpl\_vxi.chm**

## 3 LabWindows/CVI and VXIplug&play driver history

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
1.90.0	08/2022	<p>* Support for FPL FW 1.90</p> <p>* RsCore updated to 4.3.0. 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.</p> <p>* New:</p> <ul style="list-style-type: none"> <li>- RF Filter (Class)</li> <li>- rsfpl_ConfigureFrequencyAnnotationMode</li> <li>- rsfpl_ConfigureSweepTypeMode</li> <li>- rsfpl_QuerySweepFFTSubspan</li> <li>- rsfpl_LinkToAnotherDeltaMarker</li> <li>- rsfpl_DeltaMarkerLinkToAnotherDeltaMarker</li> <li>- rsfpl_ConfigureLayoutWindowType</li> <li>- rsfpl_ConfigureItemsToStoreInstrumentSourceCalibrationData</li> <li>- rsfpl_ConfigureItemsToStoreChannelSourceCalibrationData</li> <li>- rsfpl_ConfigureNoiseCalibrationSmartSerialNumber</li> <li>- rsfpl_ConfigureNoiseMeasurementSmartSerialNumber</li> <li>- rsfpl_QueryNoiseData</li> <li>- rsfpl_ConfigureADEMZeroPhaseReferencePositionMode</li> <li>- rsfpl_ConfigureADEMRFIInputYIGFilter</li> <li>- rsfpl_ConfigureADEMRangeResultType</li> <li>- rsfpl_QueryADEMTraceResultDistortion</li> </ul> <p>* Updated:</p> <ul style="list-style-type: none"> <li>- rsfpl_ConfigureMarkerDemodulation - Demodulation Mode</li> <li>- rsfpl_ConfigureTraceAverageMode - deleted some values</li> <li>- rsfpl_ConfigureLimitLine - Units</li> <li>- rsfpl_HcopyFileFormat - removed WMF and EWMF values</li> <li>- rsfpl_ConfigureADEMTrace - added evaluation method</li> <li>- rsfpl_ReadADEMTrace - added evaluation method</li> </ul> <p>* Updated - changed API - added Subwindow parameter:</p> <ul style="list-style-type: none"> <li>- rsfpl_ConfigureYAxisRange</li> <li>- rsfpl_ConfigureYAxisGridSpacing</li> <li>- rsfpl_ConfigureYAxisReferenceLevelPosition</li> <li>- rsfpl_ConfigureTrace</li> <li>- rsfpl_ConfigurePhaseNoiseTraceYAxisScaling</li> </ul>

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsfpl_PhaseNoiseTraceYAxisAutoScaleOnce</li> <li> </li> <li>* Deleted:</li> <li>- rsfpl_ConfigureTriggerRepetitionInterval</li> <li>- rsfpl_ConfigureNoiseDUTFixedIFFrequency</li> <li>- rsfpl_QueryADEMResultFMCarrierOffset</li> <li>- rsfpl_SetAttributeRawString - use rsfpl_SetAttributeViString</li> <li>- rsfpl_GetAttributeRawString - use rsfpl_GetAttributeViString</li> <li>- rsfpl_SetAttributeViSession</li> <li>- rsfpl_GetAttributeViSession</li> <li>- rsfpl_CheckAttributeViInt32</li> <li>- rsfpl_CheckAttributeViReal64</li> <li>- rsfpl_CheckAttributeViString</li> <li>- rsfpl_CheckAttributeViBoolean</li> <li>- rsfpl_CheckAttributeViSession</li> </ul>
1.70.0	03/2021	<ul style="list-style-type: none"> <li>* RsCore updated to 3.13.0</li> <li>* Improved help for rsfpl_init(), rsfpl_InitWithOptions()</li> <li>* Optimized help texts for status codes</li> <li> </li> <li>* New:</li> <li>- Added Phase Noise subsystem</li> <li>- rsfpl_ConfigurePowerSensorSensorLevelOffset</li> <li>- rsfpl_ConfigureInternalGeneratorState</li> <li>- rsfpl_ConfigureInternalGeneratorUsage</li> <li>- rsfpl_ConfigureInternalGeneratorIndependentCWSource</li> <li>- rsfpl_ConfigureInternalGeneratorTrackingGenerator</li> <li>- rsfpl_ConfigureInternalGeneratorPowerSweep</li> <li>- rsfpl_ConfigureInternalGeneratorFrequencyOffset</li> <li>- rsfpl_InternalGeneratorCalibrateTransmission</li> <li>- rsfpl_InternalGeneratorCalibrateReflection</li> <li>- rsfpl_InternalGeneratorRecallCalibrationSettings</li> <li>- rsfpl_InternalGeneratorSaveCalibrationSettings</li> <li>- rsfpl_InternalGeneratorQueryCalibrationSaveFilePath</li> <li>- rsfpl_InternalGeneratorSaveAsTransducerFactor</li> <li>- rsfpl_OutputLoudspeakerMute</li> <li>- rsfpl_ConfigureSubwindowYAxisReferenceValue</li> <li>- rsfpl_ConfigureMarkerZoomFactor</li> <li>- rsfpl_ApplyWindowPresetTraces</li> <li>- rsfpl_ApplySubwindowPresetTraces</li> <li>- rsfpl_WindowSetFocus</li> <li>- rsfpl_SubwindowSetFocus</li> </ul>

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsfpl_ConfigurePowerDisplayLine</li> <li>- rsfpl_ConfigureDataXValueDistribution</li> <li>- rsfpl_HcopyMode</li> <li>- rsfpl_ConfigureTestReportTemplateGeneralSettings</li> <li>- rsfpl_ConfigureTestReportTemplateRawDataStorage</li> <li>- rsfpl_ConfigureTestReportTemplateTitlePageLine</li> <li>- rsfpl_ConfigureTestReportTemplateLogo</li> <li>- rsfpl_ConfigureTestReportTemplateSelectedItems</li> <li>- rsfpl_ConfigureTestReportTemplateSelectedItemsString</li> <li>- rsfpl_QueryTestReportTemplateCatalogue</li> <li>- rsfpl_SaveTestReportTemplate</li> <li>- rsfpl_LoadTestReportTemplate</li> <li>- rsfpl_DeleteTestReportTemplate</li> <li>- rsfpl_TestReportRestoreDefaults</li> <li>- rsfpl_TestReportNew</li> <li>- rsfpl_TestReportAppend</li> <li>- rsfpl_TestReportRemoveSet</li> <li>- rsfpl_TestReportRemoveAllSets</li> <li>- rsfpl_ConfigureTestReportTitlePage</li> <li>- rsfpl_ConfigureTestReportIncludeUserDefinedInformation</li> <li>- rsfpl_QueryTestReportItemList</li> <li>- rsfpl_TestReportSave</li> <li>- rsfpl_ConfigureSystemDateTime</li> <li>- rsfpl_QuerySystemDateTime</li> <li>- rsfpl_CalibrateAll</li> <li>- rsfpl_RecallCalibration</li> <li>- rsfpl_SaveCalibration</li> <li>- rsfpl_QueryCalibrationSaveFilePath</li> <li>- rsfpl_ConfigureCompressionPointMeasurementEnabled</li> <li>- rsfpl_ConfigureCompressionPointMeasurementReference</li> <li>- rsfpl_ConfigureCompressionPointMeasurementSelectCompressionPoints</li> <li>- rsfpl_QueryCompressionPointMeasurement1dBResult</li> <li>- rsfpl_QueryCompressionPointMeasurement3dBResult</li> <li>- rsfpl_QueryCompressionPointMeasurementNdBResult</li> <li>- rsfpl_ConfigureSweepListSymmetricalSetupEnabled</li> <li>- rsfpl_QueryThirdOrderInterceptResultMaximum</li> <li>- rsfpl_QueryThirdOrderInterceptResultMinimum</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurementElectronic</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurementElectronicSynchronized</li> <li>- rsfpl_SelectIQDataFile</li> <li>- rsfpl_QueryNoiseFrequencyTableData</li> </ul>



rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsfpl_ConfigureNoiseFigureUncertaintySource</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyResistorTempUncertainty</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyCalibrationSource</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyCalibrationResistorTempUncertainty</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyDUTInputMatch</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyDUTOutputMatch</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyDUTCharacteristics</li> <li>- rsfpl_ConfigureNoiseFigureUncertaintyPreampCharacteristics</li> <li>- rsfpl_QueryNoiseFigureUncertaintyAnalyzerCharacteristics</li> <li>- rsfpl_QueryNoiseFigureUncertaintyResult</li> <li>- rsfpl_ConfigureVSAFrameAPSKNState</li> <li>- rsfpl_ConfigureVSAFrameASKNState</li> <li>- rsfpl_QueryVSAMeasurementDirty</li> <li>- rsfpl_QueryVSABitErrorRateResults</li> <li>- rsfpl_VSADSPMarkerToStartOfSelectedResultRange</li> <li>- rsfpl_VSADSPDeltaMarkerToStartOfSelectedResultRange</li> <li>- rsfpl_QueryVSADSPCaptureNumberOfBursts</li> <li>- rsfpl_QueryVSADSPCaptureNumberOfPatterns</li> <li>- rsfpl_QueryVSADSPCurrentRangeBurstLength</li> <li>- rsfpl_QueryVSADSPCurrentRangeBurstPresent</li> <li>- rsfpl_QueryVSADSPCurrentRangeBurstStart</li> <li>- rsfpl_QueryVSADSPCurrentRangePatternConfidence</li> <li>- rsfpl_QueryVSADSPCurrentRangePatternCorrect</li> <li>- rsfpl_QueryVSADSPCurrentRangePatternPresent</li> <li>- rsfpl_QueryVSADSPCurrentRangePatternStart</li> </ul> <p>* Updated:</p> <ul style="list-style-type: none"> <li>- rsfpl_ConfigurePowerSensorAbsolutePowerUnit - Units updated</li> <li>- rsfpl_ConfigureAdjustLengthOfMeasurement - Help updated</li> <li>- rsfpl_ConfigureTriggerRepetitionInterval - Range updated</li> <li>- rsfpl_ConfigureMarkerPeakList - No of peaks range updated</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurement - No longer synchronized</li> <li>- rsfpl_ConfigureAndInitiatePulsePowerMeasurement - Trigger sources updated</li> <li>- rsfpl_ConfigureAndInitiatePulsePowerMeasurementSynchronized - Trigger sources updated</li> <li>- rsfpl_ConfigureAndReadPulsePowerMeasurement - Trigger sources updated</li> <li>- rsfpl_ConfigureIQAnalyzerSettings - Triggers updated</li> <li>- rsfpl_ConfigureNoiseCalibrationNoiseSource - Smart noise source added</li> <li>- rsfpl_ConfigureNoiseMeasurementNoiseSource - Smart noise source added</li> <li>- rsfpl_ConfigureNoiseFrequencyTableData - Help updated</li> <li>- rsfpl_ConfigureADEMDemodulator - Trigger sources updated</li> <li>- rsfpl_ConfigureEMILISNVNetwork - Network types updated</li> </ul>

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsfpl_ConfigureVSASStandardPreset - Help updated</li> <li>- rsfpl_ConfigureVSAModulationFSK - FP and function fixed</li> <li>- rsfpl_ConfigureVSASignalStructureBurst - Helps and ranges updated</li> <li>- rsfpl_ConfigureVSASymbolNumberAtReference - Range updated</li> </ul> <p>* Deleted:</p> <ul style="list-style-type: none"> <li>- rsfpl_GetVSAPatternFound</li> <li>- rsfpl_QueryVSAResultsBERFormat</li> </ul>
1.30.0	08/2019	<p>* RsCore updated to 3.6.1</p> <p>* Updated:</p> <ul style="list-style-type: none"> <li>- rsfpl_ConfigureChannelPowerAdjacentChannel - Updated range for Spacing parameter</li> <li>- rsfpl_ConfigureChannelPowerAlternateChannel - Updated range for Spacing parameter</li> <li>- rsfpl_HcopyFileFormat - WMF, EWMF, DPF, SG, DOC and RTF added</li> <li>- rsfpl_ConfigureRBWFilterType - 5-pole, RRC, CISPR, and MIL Std filters added</li> <li>- rsfpl_ConfigureTriggerSource - Baseband Power added</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurement - Range table added to Filter Type parameter</li> <li>- rsfpl_SetStatusRegister - Added 'CORRection' commands</li> <li>- rsfpl_GetStatusRegister - Added 'CORRection' commands</li> <li>- rsfpl_ConfigureMarkerAutoPeakSearch - Bug preventing min search setting fixed</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurement,</li> <li>- rsfpl_ConfigureAndInitiateListEvaluationMeasurementSynchronized,</li> <li>- rsfpl_QueryListEvaluationResults - Improved error elaboration for some invalid parameters.</li> <li>- rsfpl_ReadListEvaluationMeasurement - Bug preventing successful execution fixed.</li> <li>- rsfpl_ReadIQData, rsfpl_ReadIQData - API changed - I,Q parameters - data type to ViReal64</li> <li>- rsfpl_viWrite renamed to rsfpl_WriteCommand</li> </ul> <p>* New:</p> <ul style="list-style-type: none"> <li>- Added VSA subsystem</li> <li>- rsfpl_ConfigureMultiThreadLocking</li> <li>- rsfpl_ConfigureAutoSystemErrQuery</li> <li>- rsfpl_SelectMeasurementChannelByType</li> <li>- RSFPL_ATTR_RF_INPUT_SELECT</li> <li>- rsfpl_ConfigureSubwindowHorizontalScale RSFPL_ATTR_SUBWINDOW_HORIZONTAL_SCALE</li> <li>- rsfpl_ConfigureRFInputSAWFilter RSFPL_ATTR_RF_INPUT_SAW_FILTER</li> <li>- rsfpl_ConfigureSubwindowYAxisScaling RSFPL_ATTR_SUBWINDOW_Y_AXIS_SCALING RSFPL_ATTR_SUBWINDOW_Y_AXIS_SCALING_MODE</li> <li>- rsfpl_ConfigureWindowSweepPoints RSFPL_ATTR_WINDOW_SWEEP_POINTS</li> <li>- rsfpl_ConfigureExternalTriggerLevel</li> </ul>

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		RSFPL_ATTR_EXTERNAL_TRIGGER_LEVEL - rsfpl_ConfigureMarkerLinking RSFPL_ATTR_MARKER_LINKING - rsfpl_QueryMarkerAmplitude RSFPL_ATTR_MARKER_AMPLITUDE - rsfpl_ConfigureMarkerProbability RSFPL_ATTR_MARKER_PROBABILITY - rsfpl_NoiseMeasurementMarkerAllOff RSFPL_ATTR_NOISE_MEASUREMENT_MARKER_ALL_OFF - rsfpl_BandPowerMarkerAllOff RSFPL_ATTR_BAND_POWER_MARKER_ALL_OFF - rsfpl_ConfigureSpuriousEmissionsBreakMeasurementEnabled RSFPL_ATTR_SPURIOUS_EMISSIONS_BREAK_MEASUREMENT_ENABLED - rsfpl_AdjustSpuriousEmissionsXAxis RSFPL_ATTR_SPURIOUS_EMISSIONS_ADJUST_X_AXIS - rsfpl_ConfigureStatisticalMeasurement RSFPL_ATTR_SIGNAL_STATISTIC_APD_ENABLED RSFPL_ATTR_SIGNAL_STATISTIC_CCDF_ENABLED RSFPL_ATTR_SIGNAL_STATISTIC_NUMBER_OF_SAMPLES - rsfpl_ConfigureSignalStatisticScaling RSFPL_ATTR_SIGNAL_STATISTIC_SCALING_X_REF_LEVEL RSFPL_ATTR_SIGNAL_STATISTIC_SCALING_X_RANGE RSFPL_ATTR_SIGNAL_STATISTIC_SCALING_Y_UNIT RSFPL_ATTR_SIGNAL_STATISTIC_SCALING_Y_MINIMUM RSFPL_ATTR_SIGNAL_STATISTIC_SCALING_Y_MAXIMUM - rsfpl_SetSignalStatisticScalingSettings RSFPL_ATTR_SIGNAL_STATISTIC_DEFAULT_SETTING RSFPL_ATTR_SIGNAL_STATISTIC_ADJUST_SETTINGS - rsfpl_QueryStatisticalMeasurementResults - rsfpl_QueryStatisticalMeasurementCCDFLevel - rsfpl_ConfigureSignalStatisticGatePeriod RSFPL_ATTR_SIGNAL_STATISTIC_GATE_PERIOD - rsfpl_ConfigureSignalStatisticGateComment RSFPL_ATTR_SIGNAL_STATISTIC_GATE_COMMENT - rsfpl_ConfigureSignalStatisticGateRange RSFPL_ATTR_SIGNAL_STATISTIC_GATE_RANGE_ENABLED RSFPL_ATTR_SIGNAL_STATISTIC_GATE_RANGE_START RSFPL_ATTR_SIGNAL_STATISTIC_GATE_RANGE_STOP - rsfpl_ConfigureDisplayFormat RSFPL_ATTR_DISPLAY_FORMAT - rsfpl_ConfigureSubwindowDisplaySingleZoomEnabled

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		RSFPL_ATTR_SUBWINDOW_DISPLAY_SINGLE_ZOOM_ENABLED - rsfpl_ConfigureSubwindowSingleZoom - rsfpl_ConfigureSubwindowMultipleZoomEnabled RSFPL_ATTR_SUBWINDOW_MULTIPLE_ZOOM_ENABLED - rsfpl_SubwindowMultipleZoom - rsfpl_ConfigureNoiseInputLossTemperature RSFPL_ATTR_NOISE_INPUT_LOSS_TEMPERATURE - rsfpl_QueryNoiseInputLossTableList RSFPL_ATTR_NOISE_INPUT_LOSS_TABLE_LIST - rsfpl_ConfigureNoiseOutputLossTemperature RSFPL_ATTR_NOISE_OUTPUT_LOSS_TEMPERATURE - rsfpl_QueryNoiseOutputLossTableList RSFPL_ATTR_NOISE_OUTPUT_LOSS_TABLE_LIST - rsfpl_ConfigureNoiseCalibrationLossMode RSFPL_ATTR_NOISE_CALIBRATION_LOSS_MODE - rsfpl_ConfigureNoiseCalibrationLossConstant RSFPL_ATTR_NOISE_CALIBRATION_LOSS_CONSTANT - rsfpl_ConfigureNoiseCalibrationLossTemperature RSFPL_ATTR_NOISE_CALIBRATION_LOSS_TEMPERATURE - rsfpl_SelectNoiseCalibrationTable RSFPL_ATTR_NOISE_CALIBRATION_LOSS_SELECTED_TABLE - rsfpl_DefineNoiseCalibrationLossTable RSFPL_FUNC_DEFINE_NOISE_CALIBRATION_LOSS_TABLE - rsfpl_DeleteNoiseCalibrationLossTable RSFPL_ATTR_NOISE_CALIBRATION_LOSS_DELETE_TABLE - rsfpl_QueryNoiseCalibrationLossTableList RSFPL_ATTR_NOISE_CALIBRATION_LOSS_TABLE_LIST - rsfpl_ConfigureNoiseDUTLOTtype RSFPL_ATTR_NOISE_DUT_LO_TYPE - rsfpl_ConfigureNoiseDUTFixedIFFrequency RSFPL_ATTR_NOISE_DUT_FIXED_IF_FREQUENCY - rsfpl_ConfigureNoiseMeasurementPoints RSFPL_ATTR_NOISE_MEASUREMENT_POINTS - rsfpl_QueryNoiseMarkerResults - rsfpl_QueryNoiseDeltaMarkerResults - rsfpl_QueryADEMTraceResultModulationFrequency RSFPL_ATTR_ADEM_TRACE_RESULT_MODULATION_FREQUENCY - rsfpl_QueryADEMTraceResultCarrierPower RSFPL_ATTR_ADEM_TRACE_RESULT_CARRIER_POWER - rsfpl_ConfigureEMIMeasurement RSFPL_ATTR_EMI_MEASUREMENT_ENABLED

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		RSFPL_ATTR_EMI_MEASUREMENT_DWELL_TIME - rsfpl_ConfigureEMILISNVNetwork RSFPL_ATTR_EMI_LISN_V_NETWORK_TYPE RSFPL_ATTR_EMI_LISN_V_NETWORK_PHASE RSFPL_ATTR_EMI_LISN_V_NETWORK_HIGH_PASS_FILTER - rsfpl_EMIMeasurementMarkerPeakSearch RSFPL_ATTR_EMI_MEASUREMENT_MARKER_PEAK_SEARCH - rsfpl_ConfigureEMIMeasurementMarkerDetector RSFPL_ATTR_EMI_MEASUREMENT_MARKER_DETECTOR - rsfpl_QueryEMIMeasurementMarkerResult RSFPL_ATTR_EMI_MEASUREMENT_MARKER_RESULT - rsfpl_QueryEMIMeasurementMarkerLimitCondition RSFPL_ATTR_EMI_MEASUREMENT_MARKER_LIMIT_CONDITION - rsfpl_QueryEMIMeasurementMarkerLimitVerticalDistance RSFPL_ATTR_EMI_MEASUREMENT_MARKER_LIMIT_VERTICAL_DISTANCE - rsfpl_EMIMeasurementDeltaMarkerPeakSearch RSFPL_ATTR_EMI_MEASUREMENT_DELTA_MARKER_PEAK_SEARCH - rsfpl_ConfigureEMIMeasurementDeltaMarkerDetector RSFPL_ATTR_EMI_MEASUREMENT_DELTA_MARKER_DETECTOR - rsfpl_QueryEMIMeasurementDeltaMarkerResult RSFPL_ATTR_EMI_MEASUREMENT_DELTA_MARKER_RESULT - rsfpl_QueryEMIMeasurementDeltaMarkerLimitCondition RSFPL_ATTR_EMI_MEASUREMENT_DELTA_MARKER_LIMIT_CONDITION - rsfpl_QueryEMIMeasurementDeltaMarkerLimitVerticalDistance RSFPL_ATTR_EMI_MEASUREMENT_DELTA_MARKER_LIMIT_VERTICAL_DISTANCE - rsfpl_ConfigureDataInstrumentSettingsRecallMode RSFPL_ATTR_DATA_INSTRUMENT_SETTINGS_RECALL_MODE - rsfpl_DataResultsImportTrace - rsfpl_QueryFactoryDefaultIDN RSFPL_ATTR_GENERAL_GET_IDN_STRING_FACTORY - rsfpl_ConfigureCalibrationSignalFrequency43MHzPlus RSFPL_ATTR_CALIBRATION_SIGNAL_FREQUENCY_43_MHZ_PLUS - rsfpl_ConfigureCalibrationSignalFrequency7GHzPlus RSFPL_ATTR_CALIBRATION_SIGNAL_FREQUENCY_7_GHZ_PLUS - rsfpl_ConfigureCalibrationSignalWidebandFrequency RSFPL_ATTR_CALIBRATION_SIGNAL_WIDEBAND_FREQUENCY - rsfpl_ConfigureCalibrationSignalPeakDistance RSFPL_ATTR_CALIBRATION_SIGNAL_PEAK_DISTANCE - rsfpl_ErrorList RSFPL_ATTR_SYSTEM_ERROR_LIST - rsfpl_ErrorListSpecificType

rsfpl Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C/C++, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"><li>- rsfpl_ClearInstrumentErrors RSFPL_ATTR_SYSTEM_CLEAR_ERRORS</li><li>- rsfpl_ClearRemoteErrors RSFPL_ATTR_SYSTEM_CLEAR_REMOTE_ERRORS_TABLE</li><li>- rsfpl_QueryRemoteErrors</li><li>- rsfpl_QuerySystemBatteryLevel RSFPL_ATTR_SYSTEM_BATTERY_LEVEL</li><li>* Removed:</li><li>- rsfpl_viRead</li></ul>
1.20.0	07/2018	<ul style="list-style-type: none"><li>- Added Noise Figure measurement</li><li>- Added Analog Demodulation measurement</li></ul>
1.1.0	07/2018	Added IQ Analyzer
1.0.0	06/2018	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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