

LabWindows/CVI, VXIplug driver history for the R&S® Microwave Signal Generator

Products:

| R&S® SMF100A



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

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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
SMF100A	3.20	

2 Getting Started

2.1 LabWindows/CVI driver

The Rohde & Schwarz **rssmf** 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:

- *rssmf.c*
- *rssmf.h*
- *rssmf.fp*
- *rssmf_utility.h*
- *rssmf_utility.c*

2.2 VXIplug&play driver in C# and Visual Basic.NET

A C# or VB wrapper is necessary to enable a direct access to the driver DLL. The **rssmf** wrappers are automatically installed in the following folders:

32-bit driver

C:\Program Files (x86)\IVI Foundation\VISA\WinNT\include\rssmf.cs
C:\Program Files (x86)\IVI Foundation\VISA\WinNT\include\rssmf.vb

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\include\rssmf64.cs
C:\Program Files\IVI Foundation\VISA\Win64\include\rssmf64.vb

2.3 Linux and Mac OS X

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

2.4 Additional Help

The LabWindows/CVI and VXIplug&play instrument driver contains in addition the instrument driver documentation in compressed HTML format (Windows CHM help file **rssmf_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\rssmf\rssmf_vxi.chm

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\rssmf\rssmf_vxi.chm

3 LabWindows/CVI and VXIplug&play driver history

rsmf Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for, C/C++, VEE, MATLAB®, C#, etc.		
Revision	Date	Note
2.21.1	02/2017	<p>* New:</p> <ul style="list-style-type: none"> - rsmf_PowerReadPowers - rsmf_IDQueryResponse - rsmf_ProcessAllPreviousCommands - rsmf_QueryOPC <p>* Modified:</p> <ul style="list-style-type: none"> - rsmf_readToFile - accepts files larger than 1GB - rsmf_writeFromFile - accepts files larger than 1GB
2.21.0	07/2016	<p>* Modified error reporting in case of invalid parameter. Instead of returning error code according to invalid parameter, functions return always the same code VI_ERROR_INSTR_PARAMETER. Using rsmf_error_message shall give name of invalid parameter in error message.</p> <p>* rsmf_error_query reads all errors from instrument's error queue</p>
2.20.0	11/2011	<p>Driver update for SMF100A FW 2.20.232</p> <p>* New:</p> <ul style="list-style-type: none"> - rsmf_SetLFSweepShape - rsmf_GetLFSweepShape - rsmf_SetLFGGenBandwidth - rsmf_GetLFGGenBandwidth - rsmf_SetLFLevelSweepShape - rsmf_GetLFLevelSweepShape - rsmf_SetFrequencySweepTime - rsmf_GetFrequencySweepTime - rsmf_SetFrequencySweepMarkerTransfer <p>* Removed:</p> <ul style="list-style-type: none"> - rsmf_GetKeyboardLayout - rsmf_SetKeyboardLayout - rsmf_GetKeyboardLanguage - rsmf_SetKeyboardLanguage
2.15.0	08/2010	<p>Driver update for SMF100A FW Support for FW 2.15.181</p> <p>* New functions:</p> <ul style="list-style-type: none"> - Power Sensor Gate Mode

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		<ul style="list-style-type: none"> - Power Sensor Mathematics - RF Phase Settings - Pulse Train Import/Export - Markers support - References support - rsmf_SetPULMSyncToInternalClock - rsmf_GetPULMSyncToInternalClock - rsmf_SetPULMDoubleWidth - rsmf_GetPULMDoubleWidth - rsmf_GetPULMPulseTrainLength - rsmf_SetFrequencySweepRampTime - rsmf_GetFrequencySweepRampTime - rsmf_LearnLISTModeData - rsmf_SetPowerSweepTimeAveragingFactor - rsmf_GetPowerSweepTimeAveragingFactor - rsmf_SetPowerDisplayIndication - rsmf_GetPowerDisplayIndication - rsmf_SetALCDetector - rsmf_GetALCDetector - rsmf_SetALCPowerSensorType - rsmf_GetALCPowerSensorType - rsmf_SetALCReferenceVoltage - rsmf_GetALCReferenceVoltage - rsmf_TriggerUserCorrectionMeasurement - rsmf_SetUserCorrectionPowerSensorType - rsmf_GetUserCorrectionPowerSensorType - rsmf_SetRFOFFAttenuatorMode - rsmf_GetRFOFFAttenuatorMode - rsmf_GetAutomaticFilePath - rsmf_SYSTEMGPIBResource - rsmf_SYSTEMSerialResource - rsmf_SYSTEMGPIBResource * Modified functions: - rsmf_SetPowerSweepPowerSeparateFrequency, rsmf_GetPowerSweepPowerSeparateFrequency - incorrect SCPI command - rsmf_GetPowerSweepDataPoints, rsmf_GetPowerSweepDataXValues, rsmf_GetPowerSweepDataYValues - fixed command - rsmf_confPowerSense - Use SParameter is read only, changed Source - rsmf_SetPowerSource, rsmf_GetPowerSource - changed valid values * Removed functions: - rsmf_CALibrationClockSynthesis

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		<ul style="list-style-type: none"> - rsmf_SetALCOffMode - rsmf_GetALCOffMode - rsmf_CALibrationFMOffset - rsmf_SetCALibrationLevelAdjustmentData - rsmf_GetCALibrationLevelAdjustmentData - rsmf_SetPowerUseSPParameters - rsmf_SetPowerSweepTimeTiming - rsmf_GetPowerSweepTimeTiming
2.05.4	0/2009	<p>Driver update for SMF FW 2.05.244.23</p> <p>* New functions:</p> <ul style="list-style-type: none"> - rsmf_SetPULMTrainRepetition - rsmf_GetPULMTrainRepetition - rsmf_confList - rsmf_LISTCatalog - rsmf_LISTDeleteList - rsmf_LISTDeleteAll - rsmf_LISTResetList - rsmf_LISTTriggerExecute - rsmf_SetLISTMode - rsmf_SetLISTDwellTime - rsmf_GetLISTDwellTime - rsmf_SetLISTSelectList - rsmf_GetLISTSelectList - rsmf_SetLISTFrequencyValues - rsmf_GetLISTFrequencyValues - rsmf_GetLISTFrequencyPoints - rsmf_SetLISTPowerValues - rsmf_GetLISTPowerValues - rsmf_GetLISTPowerPoints - rsmf_SetLISTAttenuatorMode - rsmf_GetLISTAttenuatorMode - rsmf_SetLISTStepIndex - rsmf_GetLISTStepIndex - rsmf_SetLISTStartIndex - rsmf_GetLISTStartIndex - rsmf_SetLISTStopIndex - rsmf_GetLISTStopIndex - rsmf_SetLISTImportExportListMode - rsmf_GetLISTImportExportListMode

rssmf Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for, C/C++, VEE, MATLAB®, C#, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssmf_SetLISTImportExportListFile - rssmf_GetLISTImportExportListFile - rssmf_ImportExportExecute - rssmf_SetLISTImportExportASCIIFile - rssmf_GetLISTImportExportASCIIFile - rssmf_SetLISTImportExportASCIIExtension - rssmf_GetLISTImportExportASCIIExtension - rssmf_SetLISTImportExportASCIIColumnSeparator - rssmf_GetLISTImportExportASCIIColumnSeparator - rssmf_SetLISTImportExportASCIIColumnDecimalSeparator - rssmf_GetLISTImportExportASCIIColumnDecimalSeparator - rssmf_LISTImportExportCatalog - rssmf_SetROSCRFOutput - rssmf_GetROSCRFOutput - rssmf_SetPowerDisplayPermanentPriority - rssmf_GetPowerDisplayPermanentPriority - rssmf_confPowerSweepFrequencySeparateFrequencyRange - rssmf_SetPowerSweepFrequencyExecution - rssmf_GetPowerSweepFrequencyExecution - rssmf_SetPowerSweepFrequencyYAutoScale - rssmf_GetPowerSweepFrequencyYAutoScale - rssmf_ResetPowerSweepFrequencyYScale - rssmf_SetPowerSweepFrequencySeparateFrequencyRange - rssmf_GetPowerSweepFrequencySeparateFrequencyRange - rssmf_SetPowerSweepFrequencySeparateFrequencyStart - rssmf_GetPowerSweepFrequencySeparateFrequencyStart - rssmf_SetPowerSweepFrequencySeparateFrequencyStop - rssmf_GetPowerSweepFrequencySeparateFrequencyStop - rssmf_confPowerSweepPowerSeparateFrequencyRange - rssmf_SetPowerSweepPowerExecution - rssmf_GetPowerSweepPowerExecution - rssmf_SetPowerSweepPowerYAutoScale - rssmf_GetPowerSweepPowerYAutoScale - rssmf_ResetPowerSweepPowerYScale - rssmf_SetPowerSweepPowerSeparateFrequencyState - rssmf_GetPowerSweepPowerSeparateFrequencyState - rssmf_SetPowerSweepPowerSeparateFrequency - rssmf_GetPowerSweepPowerSeparateFrequency - rssmf_confPowerSweepTimeSeparateFrequencyRange - rssmf_SetPowerSweepTimePulseDataAnalysisState

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Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for, C/C++, VEE, MATLAB®, C#, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssmf_GetPowerSweepTimePulseDataAnalysisState - rssmf_SetPowerSweepTimePulseThresholdBase - rssmf_GetPowerSweepTimePulseThresholdBase - rssmf_SetPowerSweepTimePulseThresholdReferenceLevel - rssmf_GetPowerSweepTimePulseThresholdReferenceLevel - rssmf_SetPowerSweepTimeTriggerSource - rssmf_GetPowerSweepTimeTriggerSource - rssmf_SetPowerSweepTimeTriggerDropOutTime - rssmf_GetPowerSweepTimeTriggerDropOutTime - rssmf_SetPowerSweepTimeTriggerHysteresis - rssmf_GetPowerSweepTimeTriggerHysteresis - rssmf_SetPowerSweepTimeTriggerThreshold - rssmf_GetPowerSweepTimeTriggerThreshold - rssmf_SetPowerSweepTimeTriggerAutoSet - rssmf_SetPowerSweepTimeStart - rssmf_GetPowerSweepTimeStart - rssmf_SetPowerSweepTimeStop - rssmf_GetPowerSweepTimeStop - rssmf_SetPowerSweepTimeSpacing - rssmf_GetPowerSweepTimeSpacing - rssmf_SetPowerSweepTimeTiming - rssmf_GetPowerSweepTimeTiming - rssmf_SetPowerSweepTimeSteps - rssmf_GetPowerSweepTimeSteps - rssmf_SetPowerTimeTriggerSource - rssmf_GetPowerTimeTriggerSource - rssmf_SetPowerSweepTimeYScaleMinimum - rssmf_GetPowerSweepTimeYScaleMinimum - rssmf_SetPowerSweepTimeYScaleMaximum - rssmf_GetPowerSweepTimeYScaleMaximum - rssmf_SetPowerSweepTimeExecution - rssmf_GetPowerSweepTimeExecution - rssmf_SetPowerSweepTimeYAutoScale - rssmf_GetPowerSweepTimeYAutoScale - rssmf_ResetPowerSweepTimeYScale - rssmf_SetPowerSweepTimeSeparateFrequencyState - rssmf_GetPowerSweepTimeSeparateFrequencyState - rssmf_SetPowerSweepTimeSeparateFrequency - rssmf_GetPowerSweepTimeSeparateFrequency - rssmf_SetPowerSweepTraceState

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Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for, C/C++, VEE, MATLAB®, C#, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> - rsmf_GetPowerSweepTraceState - rsmf_SetPowerSweepTraceColor - rsmf_GetPowerSweepTraceColor - rsmf_copyPowerSweepTrace - rsmf_GetPowerSweepTraceDataPoints - rsmf_GetPowerSweepTraceXValues - rsmf_GetPowerSweepTraceYValues - rsmf_SetPowerSweepTraceSource - rsmf_GetPowerSweepTraceSource - rsmf_GetPowerSweepTracePulseDataAnalysisState - rsmf_GetPowerSweepTracePulseThresholdBase - rsmf_GetPowerSweepTracePulseThresholdReferenceLevel - rsmf_GetPowerDisplayPulseDataAnalysis - rsmf_SetPowerSweepHardcopyDevice - rsmf_GetPowerSweepHardcopyDevice - rsmf_SetPowerSweepHardcopyImageSize - rsmf_GetPowerSweepHardcopyImageSize - rsmf_SetPowerSweepHardcopyMarkerState - rsmf_GetPowerSweepHardcopyMarkerState - rsmf_SavePowerSweepHardcopy - rsmf_SetPowerSweepHardcopyCSVHeader - rsmf_GetPowerSweepHardcopyCSVHeader - rsmf_SetPowerSweepHardcopyCSVOrientation - rsmf_GetPowerSweepHardcopyCSVOrientation - rsmf_SetPowerSweepHardcopyCSVColumnSeparator - rsmf_GetPowerSweepHardcopyCSVColumnSeparator - rsmf_SetPowerSweepHardcopyCSVDecimalPoint - rsmf_GetPowerSweepHardcopyCSVDecimalPoint - rsmf_GetPowerSweepHardcopyCSVData - rsmf_SetPowerSweepHardcopyAutomaticNamingState - rsmf_GetPowerSweepHardcopyAutomaticNamingState - rsmf_GetPowerSweepHardcopyAutomaticFileName - rsmf_SetPowerSweepHardcopyAutomaticDirectory - rsmf_GetPowerSweepHardcopyAutomaticDirectory - rsmf_DeletePowerSweepHardcopyImageFiles - rsmf_SetPowerSweepHardcopyAutomaticFileDateState - rsmf_GetPowerSweepHardcopyAutomaticFileDateState - rsmf_GetPowerSweepHardcopyAutomaticFileDate - rsmf_SetPowerSweepHardcopyAutomaticFilePrefixState - rsmf_GetPowerSweepHardcopyAutomaticFilePrefixState

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		<ul style="list-style-type: none"> - rsmf_SetPowerSweepHardcopyAutomaticFilePrefix - rsmf_GetPowerSweepHardcopyAutomaticFilePrefix - rsmf_GetPowerSweepHardcopyAutomaticFileNumber - rsmf_UserCorrectionFillListWithSensor - rsmf_SetLevelSweepAttenuatorMode - rsmf_GetLevelSweepAttenuatorMode - rsmf_SetLevelSweepShape - rsmf_GetLevelSweepShape - rsmf_GetLevelSweepSpacing - rsmf_ResetLevelSweep - rsmf_SetCALibrationLevelAdjustmentData - rsmf_GetCALibrationLevelAdjustmentData - rsmf_SetImageSize - rsmf_GetImageSize - rsmf_SetOutputDevice - rsmf_GetOutputDevice - rsmf_SaveHardCopy - rsmf_SetAutomaticNamingState - rsmf_GetAutomaticNamingState - rsmf_GetAutomaticFileName - rsmf_SetAutomaticDirectory - rsmf_GetAutomaticDirectory - rsmf_DeleteImageFiles - rsmf_SetAutomaticFileDateState - rsmf_GetAutomaticFileDateState - rsmf_GetAutomaticFileDate - rsmf_SetAutomaticFilePrefixState - rsmf_GetAutomaticFilePrefixState - rsmf_SetAutomaticFilePrefix - rsmf_GetAutomaticFilePrefix - rsmf_GetAutomaticFileNumber - rsmf_rangeCheckState <p>* Modified functions:</p> <ul style="list-style-type: none"> - rsmf_confPowerResponseMeasurement - rsmf_SetPowerSweepFrequencyTiming - rsmf_GetPowerSweepFrequencyTiming - rsmf_SetPowerSweepPowerTiming - rsmf_GetPowerSweepPowerTiming - rsmf_SetPowerSweepMode

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Revision	Date	Note
		<ul style="list-style-type: none"> - rssmf_GetPowerSweepMode - rssmf_CALibrationAll - rssmf_CALibrationFrequency - rssmf_CALibrationModulationGenerators - rssmf_CALibrationLevel - rssmf_CALibrationFMOffset - rssmf_CALibrationClockSynthesis
2.05.3	05/2009	Modifications: Fixed range of rssmf_SetPULMWidth * Modified range checking - now it is possible to turn it off using rssmf_errorCheckState
2.05.2	05/2009	Modifications: <ul style="list-style-type: none"> - rssmf_SetPULMMode - rssmf_GetPULMMode - rssmf_confPulmTrigger - rssmf_SetPULMGateInputPolarity - rssmf_GetPULMGateInputPolarity
2.05.1	03/2009	Modifications: <ul style="list-style-type: none"> - rssmf_GetPULMGateInputPolarity, rssmf_SetPULMGateInputPolarity, rssmf_confPulmTrigger
2.05.0	10/2008	Driver update for Firmware version 2.05.47.34 New functions: <ul style="list-style-type: none"> rssmf_SetNOISEBandwidthState rssmf_GetNOISEBandwidthState rssmf_PULMPulseTrainCatalog rssmf_PULMDeletePulseTrainFile rssmf_PULMSelectPulseTrainFile rssmf_SetPULMMode rssmf_GetPULMMode rssmf_SetPULMTrainOfftime rssmf_GetPULMTrainOfftime rssmf_GetTrainOfftimePoints rssmf_SetPULMTrainOntime rssmf_GetPULMTrainOntime rssmf_GetTrainOntimePoints rssmf_confCHIRP rssmf_confCHIRPTrigger rssmf_SetCHIRPTriggerMode

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Revision	Date	Note
		rsmf_GetCHIRPTriggerMode rsmf_SetCHIRPTriggerSlope rsmf_GetCHIRPTriggerSlope rsmf_SetCHIRPTriggerLevel rsmf_GetCHIRPTriggerLevel rsmf_SetCHIRPGatePolarity rsmf_GetCHIRPGatePolarity rsmf_SetCHIRPExternalImpedance rsmf_GetCHIRPExternalImpedance rsmf_SetCHIRPDirection rsmf_GetCHIRPDirection rsmf_SetCHIRPState rsmf_GetCHIRPState rsmf_SetCHIRPBandwidth rsmf_GetCHIRPBandwidth rsmf_SetCHIRPPulsePeriod rsmf_GetCHIRPPulsePeriod rsmf_SetCHIRPPulseWidth rsmf_GetCHIRPPulseWidth rsmf_GetCHIRPCompressionRatio rsmf_SetFrequencySweepShape rsmf_GetFrequencySweepShape rsmf_confPowerSense rsmf_confPowerResponseMeasurement rsmf_confPowerResponseMeasurementDiagram rsmf_PowerZero rsmf_SetInitiatePowerMeasurement rsmf_GetInitiatePowerMeasurement rsmf_SetPowerUseSParameters rsmf_GetPowerUseSParameters rsmf_SetPowerFrequency rsmf_GetPowerFrequency rsmf_SetPowerOffset rsmf_GetPowerOffset rsmf_SetPowerOffsetState rsmf_GetPowerOffsetState rsmf_SetPowerSource rsmf_GetPowerSource rsmf_SetPowerUnit rsmf_GetPowerUnit

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Revision	Date	Note
		rsmf_SetPowerDisplayPermanentState rsmf_GetPowerDisplayPermanentState rsmf_confPowerFilter rsmf_SetPowerFilterLength rsmf_GetPowerFilterLength rsmf_SetPowerFilterMode rsmf_GetPowerFilterMode rsmf_SetPowerFilterFixedNoiseContent rsmf_GetPowerFilterFixedNoiseContent rsmf_SetPowerFilterFixedNoiseTimeout rsmf_GetPowerFilterFixedNoiseTimeout rsmf_GetPowerFilterLengthAuto rsmf_PowerFilterSearchOnce rsmf_PowerSweepInitiate rsmf_PowerSweepAbort rsmf_SetPowerSweepFrequencyStart rsmf_GetPowerSweepFrequencyStart rsmf_SetPowerSweepFrequencyStop rsmf_GetPowerSweepFrequencyStop rsmf_SetPowerSweepFrequencyTiming rsmf_GetPowerSweepFrequencyTiming rsmf_SetPowerSweepFrequencySpacing rsmf_GetPowerSweepFrequencySpacing rsmf_SetPowerSweepFrequencySteps rsmf_GetPowerSweepFrequencySteps rsmf_SetPowerSweepFrequencyYScaleMinimum rsmf_GetPowerSweepFrequencyYScaleMinimum rsmf_SetPowerSweepFrequencyYScaleMaximum rsmf_GetPowerSweepFrequencyYScaleMaximum rsmf_SetPowerSweepPowerStart rsmf_GetPowerSweepPowerStart rsmf_SetPowerSweepPowerStop rsmf_GetPowerSweepPowerStop rsmf_SetPowerSweepPowerSpacing rsmf_GetPowerSweepPowerSpacing rsmf_SetPowerSweepPowerTiming rsmf_GetPowerSweepPowerTiming rsmf_SetPowerSweepPowerSteps rsmf_GetPowerSweepPowerSteps rsmf_SetPowerSweepPowerYScaleMinimum

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		rsmf_GetPowerSweepPowerYScaleMinimum rsmf_SetPowerSweepPowerYScaleMaximum rsmf_GetPowerSweepPowerYScaleMaximum rsmf_SetPowerSweepSenseMode rsmf_GetPowerSweepSenseMode rsmf_SetPowerSweepMode rsmf_GetPowerSweepMode rsmf_GetPowerSweepDataPoints rsmf_GetPowerSweepDataXValues rsmf_GetPowerSweepDataYValues rsmf_SetPowerSweepHardcopyLNGFormat rsmf_GetPowerSweepHardcopyLNGFormat rsmf_SetPowerSweepHardcopyFile rsmf_GetPowerSweepHardcopyFile rsmf_PowerSensorDevice rsmf_PowerSensorType rsmf_PowerReadPower rsmf_GetPowerSensorVersion rsmf_PowerSensorSerialNumber rsmf_SetALCOffMode rsmf_GetALCOffMode rsmf_CALibrationFMOffset rsmf_CALibrationClockSynthesis rsmf_SetCALibrationLevelLoopGainState rsmf_GetCALibrationLevelLoopGainState rsmf_PresetSignalPath rsmf_SetImageFileName rsmf_GetImageFileName rsmf_SetImageFormat rsmf_GetImageFormat rsmf_GetImageSnapshot rsmf_GetSYSTEMStartupStatus rsmf_SetAngleUnits rsmf_GetAngleUnits rsmf_SetPowerUnits rsmf_GetPowerUnits rsmf_SetVelocityUnits rsmf_GetVelocityUnits rsmf_SetBlankWidth rsmf_GetBlankWidth

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		rssmf_DevicePreset Modified functions: rssmf_init (USB support added) rssmf_confFrequencySweep rssmf_CALibrationFrequency rssmf_CALibrationLevel rssmf_SetFrequencySweepSpacing rssmf_readToFile rssmf_revision_query
2.04.1	08/2007	Fixed ID query parsing in rssmf_init for older firmware version 2.04.154.
2.04.0	07/2007	Driver created

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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