

LabVIEW driver history for the R&S® Analog Signal Generator

Products:

| R&S®SMA100A



Driver history for LabVIEW

Table of Contents

1	Supported Instruments.....	3
2	Getting Started	4
2.1	LabVIEW version	4
2.2	Installation.....	4
3	LabVIEW driver history.....	5

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
SMA100A	3.01	

2 Getting Started

2.1 LabVIEW version

The Rohde & Schwarz **rssma** Instrument driver can be used in **LabVIEW 2010** and later

2.2 Installation

Install the 32-bit driver or 64-bit driver based on your LabVIEW type, **not based on your Windows OS type.**

Prior to the installation of the LabVIEW driver, please install the corresponding (x86 or x64) rssma VXiinp driver downloadable from here:

<https://www.rohde-schwarz.com/driver/sma100a>

3 LabVIEW driver history

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
2.22.0	07/2018	<p>New LabVIEW installer, the precondition is installation of rssma VXIpn driver 2.21.0 or newer</p> <p>Only LabVIEW wrapper changed, no changes to the underlying VXIpn driver</p> <p>New Front pannels for all VIs</p> <p>New VI icons for common VIs</p> <p>New palette Icon</p> <p>New Help format</p> <p>New wrapper formats for all the DII-Nodes</p> <p>Fixed buffer allocation bugs for VIs returning strings</p> <p>Removed ArraySize parameters when not necessary</p> <p>Changed inputs from recommended to mandatory on several VIs</p> <p>Fixed VIs where no output values were provided</p> <p>Several bug fixes</p>
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 rssma_error_message shall give name of invalid parameter in error message.</p> <p>RSSMA Error Query.vi reads all errors from instrument's error queue</p> <p>Modified:</p> <p>RSSMA Configure External Reference.vi, RSSMA Set ROSC Synchronization Bandwidth.vi - bugfix, WIDE is sent instead of WID</p>
2.20.0	10/2013	<p>* for FW 2.20.xx</p> <p>* New:</p> <ul style="list-style-type: none"> - rssma_confNRPZPowerControl - rssma_confPowerSenseLevelOffset - rssma_SetPULMSynchronizationState - rssma_GetPULMSynchronizationState - rssma_SetDMEMICAOChannel - rssma_GetDMEMICAOChannel - rssma_SetDMEMCompositeAMState - rssma_GetDMEMCompositeAMState - rssma_SetDMEMCompositeAMModulationDepth - rssma_GetDMEMCompositeAMModulationDepth - rssma_SetDMEMCompositeAMFrequency - rssma_GetDMEMCompositeAMFrequency - rssma_SetDMEMCompositeAMPhase - rssma_GetDMEMCompositeAMPhase - rssma_GetDMEMAnalysisTriggerLevel

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetVORMCarrierFrequencyStep - rssma_GetVORMCarrierFrequencyStep - rssma_SetVORMICAChannel - rssma_GetVORMICAChannel - rssma_SetRFMultiplier - rssma_GetRFMultiplier - rssma_SetRFOutputLevel - rssma_GetRFOutputLevel - rssma_SetRFAttenuatorRFOffMode - rssma_GetRFAttenuatorRFOffMode - rssma_SetPowerControlSensor - rssma_GetPowerControlSensor - rssma_SetPowerControlSensorState - rssma_GetPowerControlSensorState - rssma_SetPowerControlSensorTargetLevel - rssma_GetPowerControlSensorTargetLevel - rssma_SetPowerControlSensorCatchRange - rssma_GetPowerControlSensorCatchRange - rssma_SetPowerControlSensorDelayTime - rssma_GetPowerControlSensorDelayTime - rssma_SetPowerControlSensorUserPeakPower - rssma_GetPowerControlSensorUserPeakPower - rssma_SetPowerSweepFrequencyLevelOffsetState - rssma_GetPowerSweepFrequencyLevelOffsetState - rssma_SetPowerSweepFrequencyLevelOffset - rssma_GetPowerSweepFrequencyLevelOffset - rssma_SetPowerSweepPowerLevelOffsetState - rssma_GetPowerSweepPowerLevelOffsetState - rssma_SetPowerSweepPowerLevelOffset - rssma_GetPowerSweepPowerLevelOffset - rssma_SetPowerSweepTimeTriggerSlope - rssma_GetPowerSweepTimeTriggerSlope - rssma_GetLISTFree - rssma_SYSTEMErrorAll - rssma_SYSTEMHISLIPResource - rssma_SYSTEMSocketResource - rssma_SYSTEMIdentificationUserDefined - rssma_SetSYSTEMAnnotationAmplitude - rssma_GetSYSTEMAnnotationAmplitude - rssma_SetSystemAnnotationFrequency - rssma_GetSystemAnnotationFrequency

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetSYSTEMAnnotationAll - rssma_GetSYSTEMAnnotationAll * Modified: - rssma_confAM, rssma_SetAMSource, rssma_GetAMSource - added Internal-External as modulation source - rssma_SetRFFrequencyOffset - frequency offset range changed from +-50 GHz to +-67GHz - rssma_SetLFSweepSource, rssma_GetLFSweepSource command changed, LFO in command isn't optional - rssma_TriggerSourceAllSweeps ... mode External Auto added - rssma_SetDMEMChannelSuffix, rssma_GetDMEMChannelSuffix ... ICAO channel added - rssma_SetSYSTEMIdentification, rssma_GetSYSTEMIdentification ... values changed according documentation, AUTO and USER available now
2.15.0	11/2011	<p>Support for instrument FW 2.15.185</p> <p>Modifications:</p> <ul style="list-style-type: none"> * New: - Power sensor trace math - rssma_SetVORMCOMIDPeriod - rssma_GetVORMCOMIDPeriod - rssma_SetMBMCOMIDPeriod - rssma_GetMBMCOMIDPeriod * Modified: - rssma_SetLFGGenFrequency - fixed range - rssma_confLFFreq - help of LF frequency changed - upper limit modified - rssma_configAM - help of LF frequency changed - upper limit modified - rssma_confFMInternal - help of LF frequency changed - upper limit modified - rssma_confPMInternal - help of LF frequency changed - upper limit modified - rssma_SetDMEMTriggerDelay - fixed range - rssma_SetDMEMIdDotLength - fixed range - rssma_confPowerSense, rssma_SetPowerSource, rssma_GetPowerSource - added sources A and B, removed RF * Removed: - rssmf_SYSTEMNetworkIPAddressExecute - rssma_SetSYSTEMNetworkCommonWorkgroup - rssma_GetSYSTEMNetworkCommonWorkgroup - rssma_SetSYSTEMNetworkWorkgroup - rssma_GetSYSTEMNetworkWorkgroup - rssma_SYSTEMNetworkCommonExecute - rssma_SetSYSTEMNetworkPreferredDNS - rssma_GetSYSTEMNetworkPreferredDNS

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetSYSTEMNetworkAlternateDNS - rssma_SetSYSTEMNetworkDNSMode - rssma_GetSYSTEMNetworkDNSMode - rssma_SYSTemNetworkDNSExecute - rssma_SetSYSTEMNetworkDNSAutoState - rssma_GetSYSTEMNetworkDNSAutoState - rssma_SetSYSTEMNetworkPTOP - rssma_GetSYSTEMNetworkPTOP
2.10.1	08/2010	<p>Support for instrument FW 2.10.001.31</p> <p>Modifications:</p> <p>* Added functions:</p> <ul style="list-style-type: none"> - rssma_GetAutomaticFilePath - rssma_SetADFMCOMIDPeriod - rssma_GetADFMCOMIDPeriod - rssma_SetLFSweepShape - rssma_GetLFSweepShape - rssma_SetLSLOCCOMIDPeriod - rssma_GetLSLOCCOMIDPeriod - rssma_DIAGnosticOperationTime - rssma_DIAGnosticPowerOnEvents - rssma_SYSTemGPIBResource - rssma_SYSTemSerialResource - rssma_SYSTemOptionUserDefined <p>* Modified functions:</p> <ul style="list-style-type: none"> - rssma_confCHIRPTrigger - Trigger level not used -rssma_SetPULMTrainOfftime, rssma_PULMSelectPulseTrainFile, rssma_PULMDeletePulseTrainFile - bugfix - rssma_SetLSGSMDDMCoupling, rssma_GetLSGSMDDMCoupling - incorrect SCPI command - rssma_SetLSLOCMDDDMCoupling, rssma_GetLSLOCMDDDMCoupling - incorrect SCPI command - rssma_SetFrequencySweepShape, rssma_GetFrequencySweepShape - misplaced in tree, was in LF Frequency Sweep, should be in RF Frequency sweep (LV)+oprava helpu kontrolu - rssma_SetAngleUnits, rssma_GetAngleUnits - fixed command <p>* Removed functions:</p> <ul style="list-style-type: none"> - rssma_SetCHIRPTriggerLevel - rssma_GetCHIRPTriggerLevel - rssma_SetFMEExtInpImpedance - rssma_SetFMEExtInpImpedance - rssma_SetPMEExtInpImpedance - rssma_GetPMEExtInpImpedance - rssma_SetDisplayBlankMode

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_GetDisplayBlankMode - rssma_SetDisplayProportionalScale - rssma_GetDisplayProportionalScale - rssma_SetKeyboardLayout - rssma_GetKeyboardLayout - rssma_SetKeyboardLanguage - rssma_GetKeyboardLanguage
2.10.0	10/2009	<p>Modifications:</p> <p>Initial Release for Linux, support for:</p> <ul style="list-style-type: none"> - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 <p>Support for instrument FW 2.10.001.26</p> <ul style="list-style-type: none"> * Power Sensor subsystem redesigned * Added functions: - rssma_SetLFGenDCOffset - rssma_GetLFGenDCOffset - rssma_SetAllModulationsState - rssma_GetFMSensitivity - rssma_GetPMSensitivity - rssma_SetPULMExternalInputImpedance - rssma_GetPULMExternalInputImpedance - rssma_SetPULMExternalTriggerSlope - rssma_GetPULMExternalTriggerSlope - rssma_SetPULMGateInputPolarity - rssma_GetPULMGateInputPolarity - rssma_SetPULMTrainRepetition - rssma_GetPULMTrainRepetition - rssma_GetPULMTrainRepetitionPoints - rssma_SetPULMTrainImportExportListMode - rssma_GetPULMTrainImportExportListMode - rssma_SetPULMTrainImportExportListFile - rssma_GetPULMTrainImportExportListFile - rssma_PULMTrainImportExportExecute - rssma_SetPULMTrainImportExportASCIIFile - rssma_GetPULMTrainImportExportASCIIFile - rssma_SetPULMTrainImportExportASCIIExtension - rssma_GetPULMTrainImportExportASCIIExtension - rssma_SetPULMTrainImportExportASCIIColumnSeparator - rssma_GetPULMTrainImportExportASCIIColumnSeparator

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetPULMTrainImportExportASCIIDecimalSeparator - rssma_GetPULMTrainImportExportASCIIDecimalSeparator - rssma_PULMTrainImportExportCatalog - rssma_GetDMEMTriggerNormalizeDelay - rssma_SetDMEMGatePolarity - rssma_GetDMEMGatePolarity - rssma_GetDMEMReplyEfficiencyValidity - rssma_GetDMEMPeakLevelValidity - rssma_GetDMEMPulseRepetitionFrequencyValidity - rssma_GetDMEMReplyDelayValidity - rssma_SetDMEMIdTimeSchema - rssma_GetDMEMIdTimeSchema - rssma_SetDMEMIdDashLength - rssma_GetDMEMIdDashLength - rssma_SetDMEMIdDotLength - rssma_GetDMEMIdDotLength - rssma_SetDMEMIdLetterSpace - rssma_GetDMEMIdLetterSpace - rssma_SetDMEMIdSymbolSpace - rssma_GetDMEMIdSymbolSpace - rssma_SetVORMCOMIDTimeSchema - rssma_GetVORMCOMIDTimeSchema - rssma_SetVORMCOMIDDashLength - rssma_GetVORMCOMIDDashLength - rssma_SetVORMCOMIDDotLength - rssma_GetVORMCOMIDDotLength - rssma_SetVORMCOMIDLetterSpace - rssma_GetVORMCOMIDLetterSpace - rssma_SetVORMCOMIDSymbolSpace - rssma_GetVORMCOMIDSymbolSpace - rssma_SetILSGSMDDMPPercent - rssma_GetILSGSMDDMPPercent - rssma_SetILSGSMDDMPolarity - rssma_GetILSGSMDDMPolarity - rssma_SetLSLOCMDMPPercent - rssma_GetLSLOCMDMPPercent - rssma_SetLSLOCMDMPolarity - rssma_GetLSLOCMDMPolarity - rssma_SetLSLOCMCOMIDTimeSchema - rssma_GetLSLOCMCOMIDTimeSchema - rssma_SetLSLOCMCOMIDDashLength

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_GetLSLOCMCOMIDDashLength - rssma_SetLSLOCMCOMIDDotLength - rssma_GetLSLOCMCOMIDDotLength - rssma_SetLSLOCMCOMIDLetterSpace - rssma_GetLSLOCMCOMIDLetterSpace - rssma_SetLSLOCMCOMIDSymbolSpace - rssma_GetLSLOCMCOMIDSymbolSpace - rssma_SetMBMCOMIDTimeSchema - rssma_GetMBMCOMIDTimeSchema - rssma_SetMBMCOMIDDashLength - rssma_GetMBMCOMIDDashLength - rssma_SetMBMCOMIDDotLength - rssma_GetMBMCOMIDDotLength - rssma_SetMBMCOMIDLetterSpace - rssma_GetMBMCOMIDLetterSpace - rssma_SetMBMCOMIDSymbolSpace - rssma_GetMBMCOMIDSymbolSpace - rssma_SetADFMCOMIDTimeSchema - rssma_GetADFMCOMIDTimeSchema - rssma_SetADFMCOMIDDashLength - rssma_GetADFMCOMIDDashLength - rssma_SetADFMCOMIDDotLength - rssma_GetADFMCOMIDDotLength - rssma_SetADFMCOMIDLetterSpace - rssma_GetADFMCOMIDLetterSpace - rssma_SetADFMCOMIDSymbolSpace - rssma_GetADFMCOMIDSymbolSpace - rssma_GetOutputImpedance - rssma_SetROSCRFOutput - rssma_GetROSCRFOutput - rssma_GetUserCorrectionValue - rssma_UserCorrectionFillListWithSensor - rssma_SetUserCorrectionImportExportListMode - rssma_GetUserCorrectionImportExportListMode - rssma_SetUserCorrectionImportExportListFile - rssma_GetUserCorrectionImportExportListFile - rssma_UserCorrectionImportExportExecute - rssma_SetUserCorrectionImportExportASCIIFile - rssma_GetUserCorrectionImportExportASCIIFile - rssma_SetUserCorrectionImportExportASCIIExtension - rssma_GetUserCorrectionImportExportASCIIExtension

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetUserCorrectionImportExportASCIIColumnSeparator - rssma_GetUserCorrectionImportExportASCIIColumnSeparator - rssma_SetUserCorrectionImportExportASCIIDecimalSeparator - rssma_GetUserCorrectionImportExportASCIIDecimalSeparator - rssma_UserCorrectionImportExportCatalog - rssma_confPowerSense - rssma_confPowerResponseMeasurement - rssma_confPowerResponseMeasurementDiagram - rssma_PowerZero - rssma_SetInitiatePowerMeasurement - rssma_GetInitiatePowerMeasurement - rssma_SetPowerUseSParameters - rssma_GetPowerUseSParameters - rssma_SetPowerFrequency - rssma_GetPowerFrequency - rssma_SetPowerOffset - rssma_GetPowerOffset - rssma_SetPowerOffsetState - rssma_GetPowerOffsetState - rssma_SetPowerSource - rssma_GetPowerSource - rssma_SetPowerUnit - rssma_GetPowerUnit - rssma_SetPowerDisplayPermanentState - rssma_GetPowerDisplayPermanentState - rssma_SetPowerDisplayPermanentPriority - rssma_GetPowerDisplayPermanentPriority - rssma_confPowerFilter - rssma_SetPowerFilterLength - rssma_GetPowerFilterLength - rssma_SetPowerFilterMode - rssma_GetPowerFilterMode - rssma_SetPowerFilterFixedNoiseContent - rssma_GetPowerFilterFixedNoiseContent - rssma_SetPowerFilterFixedNoiseTimeout - rssma_GetPowerFilterFixedNoiseTimeout - rssma_GetPowerFilterLengthAuto - rssma_PowerFilterSearchOnce - rssma_SetPowerSensorGateState - rssma_GetPowerSensorGateState - rssma_SetPowerSensorGateStart

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_GetPowerSensorGateStart - rssma_SetPowerSensorGateStop - rssma_GetPowerSensorGateStop - rssma_SetPowerSensorGateTrace - rssma_GetPowerSensorGateTrace - rssma_GetPowerSensorGateAveragePower - rssma_GetPowerSensorGatePeakPower - rssma_PowerSweepInitiate - rssma_PowerSweepAbort - rssma_confPowerSweepFrequencySeparateFrequencyRange - rssma_SetPowerSweepFrequencyStart - rssma_GetPowerSweepFrequencyStart - rssma_SetPowerSweepFrequencyStop - rssma_GetPowerSweepFrequencyStop - rssma_SetPowerSweepFrequencyTiming - rssma_GetPowerSweepFrequencyTiming - rssma_SetPowerSweepFrequencySpacing - rssma_GetPowerSweepFrequencySpacing - rssma_SetPowerSweepFrequencySteps - rssma_GetPowerSweepFrequencySteps - rssma_SetPowerSweepFrequencyYScaleMinimum - rssma_GetPowerSweepFrequencyYScaleMinimum - rssma_SetPowerSweepFrequencyYScaleMaximum - rssma_GetPowerSweepFrequencyYScaleMaximum - rssma_SetPowerSweepFrequencyExecution - rssma_GetPowerSweepFrequencyExecution - rssma_SetPowerSweepFrequencyYAutoScale - rssma_GetPowerSweepFrequencyYAutoScale - rssma_ResetPowerSweepFrequencyYScale - rssma_SetPowerSweepFrequencySeparateFrequencyRange - rssma_GetPowerSweepFrequencySeparateFrequencyRange - rssma_SetPowerSweepFrequencySeparateFrequencyStart - rssma_GetPowerSweepFrequencySeparateFrequencyStart - rssma_SetPowerSweepFrequencySeparateFrequencyStop - rssma_GetPowerSweepFrequencySeparateFrequencyStop - rssma_confPowerSweepPowerSeparateFrequencyRange - rssma_SetPowerSweepPowerStart - rssma_GetPowerSweepPowerStart - rssma_SetPowerSweepPowerStop - rssma_GetPowerSweepPowerStop - rssma_SetPowerSweepPowerSpacing

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_GetPowerSweepPowerSpacing - rssma_SetPowerSweepPowerTiming - rssma_GetPowerSweepPowerTiming - rssma_SetPowerSweepPowerSteps - rssma_GetPowerSweepPowerSteps - rssma_SetPowerSweepPowerYScaleMinimum - rssma_GetPowerSweepPowerYScaleMinimum - rssma_SetPowerSweepPowerYScaleMaximum - rssma_GetPowerSweepPowerYScaleMaximum - rssma_SetPowerSweepPowerExecution - rssma_GetPowerSweepPowerExecution - rssma_SetPowerSweepPowerYAutoScale - rssma_GetPowerSweepPowerYAutoScale - rssma_ResetPowerSweepPowerYScale - rssma_SetPowerSweepPowerSeparateFrequencyState - rssma_GetPowerSweepPowerSeparateFrequencyState - rssma_SetPowerSweepPowerSeparateFrequency - rssma_GetPowerSweepPowerSeparateFrequency - rssma_confPowerSweepTimeSeparateFrequencyRange - rssma_SetPowerSweepTimePulseDataAnalysisState - rssma_GetPowerSweepTimePulseDataAnalysisState - rssma_SetPowerSweepTimePulseThresholdBase - rssma_GetPowerSweepTimePulseThresholdBase - rssma_SetPowerSweepTimePulseThresholdReferenceLevel - rssma_GetPowerSweepTimePulseThresholdReferenceLevel - rssma_SetPowerSweepTimeTriggerSource - rssma_GetPowerSweepTimeTriggerSource - rssma_SetPowerSweepTimeTriggerDropOutTime - rssma_GetPowerSweepTimeTriggerDropOutTime - rssma_SetPowerSweepTimeTriggerHysteresis - rssma_GetPowerSweepTimeTriggerHysteresis - rssma_SetPowerSweepTimeTriggerThreshold - rssma_GetPowerSweepTimeTriggerThreshold - rssma_SetPowerSweepTimeTriggerAutoSet - rssma_SetPowerSweepTimeStart - rssma_GetPowerSweepTimeStart - rssma_SetPowerSweepTimeStop - rssma_GetPowerSweepTimeStop - rssma_SetPowerSweepTimeSteps - rssma_GetPowerSweepTimeSteps - rssma_SetPowerSweepTimeSpacing

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_GetPowerSweepTimeSpacing - rssma_SetPowerSweepTimeAveragingFactor - rssma_GetPowerSweepTimeAveragingFactor - rssma_SetPowerSweepTimeYScaleMinimum - rssma_GetPowerSweepTimeYScaleMinimum - rssma_SetPowerSweepTimeYScaleMaximum - rssma_GetPowerSweepTimeYScaleMaximum - rssma_SetPowerSweepTimeExecution - rssma_GetPowerSweepTimeExecution - rssma_SetPowerSweepTimeYAutoScale - rssma_GetPowerSweepTimeYAutoScale - rssma_ResetPowerSweepTimeYScale - rssma_SetPowerSweepTimeSeparateFrequencyState - rssma_GetPowerSweepTimeSeparateFrequencyState - rssma_SetPowerSweepTimeSeparateFrequency - rssma_GetPowerSweepTimeSeparateFrequency - rssma_SetPowerSweepTraceState - rssma_GetPowerSweepTraceState - rssma_SetPowerSweepTraceColor - rssma_GetPowerSweepTraceColor - rssma_copyPowerSweepTrace - rssma_GetPowerSweepTraceDataPoints - rssma_GetPowerSweepTraceXValues - rssma_GetPowerSweepTraceYValues - rssma_SetPowerSweepTraceSource - rssma_GetPowerSweepTraceSource - rssma_GetPowerSweepTracePulseDataAnalysisState - rssma_GetPowerSweepTracePulseThresholdBase - rssma_GetPowerSweepTracePulseThresholdReferenceLevel - rssma_SetPowerSweepSenseMode - rssma_GetPowerSweepSenseMode - rssma_SetPowerSweepMode - rssma_GetPowerSweepMode - rssma_SetPowerDisplayIndication - rssma_GetPowerDisplayIndication - rssma_GetPowerDisplayPulseDataAnalysis - rssma_PowerSensorDevice - rssma_PowerSensorType - rssma_PowerReadPower - rssma_GetPowerSensorVersion - rssma_PowerSensorSerialNumber

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_confDiagramDisplay - rssma_SetDiagramGrid - rssma_GetDiagramGrid - rssma_SetDiagramBackgroundColor - rssma_GetDiagramBackgroundColor - rssma_SetPowerSweepHardcopyLNGFormat - rssma_GetPowerSweepHardcopyLNGFormat - rssma_SetPowerSweepHardcopyFile - rssma_GetPowerSweepHardcopyFile - rssma_SetPowerSweepHardcopyDevice - rssma_GetPowerSweepHardcopyDevice - rssma_SetPowerSweepHardcopyImageSize - rssma_GetPowerSweepHardcopyImageSize - rssma_SetPowerSweepHardcopyMarkerState - rssma_GetPowerSweepHardcopyMarkerState - rssma_SavePowerSweepHardcopy - rssma_SetPowerSweepHardcopyCSVHeader - rssma_GetPowerSweepHardcopyCSVHeader - rssma_SetPowerSweepHardcopyCSVOrientation - rssma_GetPowerSweepHardcopyCSVOrientation - rssma_SetPowerSweepHardcopyCSVColumnSeparator - rssma_GetPowerSweepHardcopyCSVColumnSeparator - rssma_SetPowerSweepHardcopyCSVDecimalPoint - rssma_GetPowerSweepHardcopyCSVDecimalPoint - rssma_GetPowerSweepHardcopyCSVData - rssma_SetPowerSweepHardcopyAutomaticNamingState - rssma_GetPowerSweepHardcopyAutomaticNamingState - rssma_GetPowerSweepHardcopyAutomaticFileName - rssma_SetPowerSweepHardcopyAutomaticDirectory - rssma_GetPowerSweepHardcopyAutomaticDirectory - rssma_DeletePowerSweepHardcopyImageFiles - rssma_SetPowerSweepHardcopyAutomaticFileDateState - rssma_GetPowerSweepHardcopyAutomaticFileDateState - rssma_GetPowerSweepHardcopyAutomaticFileDate - rssma_SetPowerSweepHardcopyAutomaticFilePrefixState - rssma_GetPowerSweepHardcopyAutomaticFilePrefixState - rssma_SetPowerSweepHardcopyAutomaticFilePrefix - rssma_GetPowerSweepHardcopyAutomaticFilePrefix - rssma_GetPowerSweepHardcopyAutomaticFileNumber - rssma_SetLevelSweepAttenuatorMode - rssma_GetLevelSweepAttenuatorMode

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_SetLevelSweepShape - rssma_GetLevelSweepShape - rssma_GetLevelSweepSpacing - rssma_ResetLevelSweep - rssma_SetLISTAttenuatorMode - rssma_GetLISTAttenuatorMode - rssma_SetLISTStepIndex - rssma_GetLISTStepIndex - rssma_SetLISTStartIndex - rssma_GetLISTStartIndex - rssma_SetLISTStopIndex - rssma_GetLISTStopIndex - rssma_LearnLISTModeData - rssma_SetCSYNDCOffsetState - rssma_GetCSYNDCOffsetState - rssma_SetCSYNDCOffset - rssma_GetCSYNDCOffset - rssma_SetCALibrationLevelAdjustmentData - rssma_GetCALibrationLevelAdjustmentData - rssma_SetPulseExtInImpedance - rssma_GetPulseExtInImpedance - rssma_SetImageSize - rssma_GetImageSize - rssma_SetOutputDevice - rssma_GetOutputDevice - rssma_SaveHardCopy - rssma_SetAutomaticNamingState - rssma_GetAutomaticNamingState - rssma_GetAutomaticFileName - rssma_SetAutomaticDirectory - rssma_GetAutomaticDirectory - rssma_DeleteImageFiles - rssma_SetAutomaticFileDateState - rssma_GetAutomaticFileDateState - rssma_GetAutomaticFileDate - rssma_SetAutomaticFilePrefixState - rssma_GetAutomaticFilePrefixState - rssma_SetAutomaticFilePrefix - rssma_GetAutomaticFilePrefix - rssma_GetAutomaticFileNumber <p>* Updates and fixes:</p>

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - rssma_confLFFreqSweep - rssma_SetLFSweepMode - rssma_confDMEMTrigger - rssma_SetDMEMTriggerMode - rssma_GetDMEMTriggerMode - rssma_confRFLevel - rssma_SetRFAttenuatorMode - rssma_GetRFAttenuatorMode - rssma_SetALCState - rssma_GetALCState - rssma_confFrequencySweep - rssma_SetFrequencySweepMode - rssma_confRFLevelSweep - rssma_SetLevelSweepMode - rssma_revision_query
20.05.2	02/2009	Modified functions: Corrected option checking in Pulse Modulation subsystem - pulse period and width
2.05.1	01/2009	Modified functions: Corrected option checking in Pulse Modulation subsystem
2.05.00	10/2008	Driver update for SMA100A Firmware 2.05.68.18 New functions: rssma_SetFrequencySweepShape rssma_GetFrequencySweepShape rssma_SetPULMMode rssma_GetPULMMode rssma_PULMPulseTrainCatalog rssma_PULMDeletePulseTrainFile rssma_PULMSelectPulseTrainFile rssma_SetPULMTrainOfftime rssma_GetPULMTrainOfftime rssma_GetTrainOfftimePoints rssma_SetPULMTrainOntime rssma_GetPULMTrainOntime rssma_GetTrainOntimePoints rssma_confDMEM rssma_confDMEMEcho rssma_confDMEMPulse rssma_confDMEMTrigger rssma_DMEMPreset

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_SetDMEMState
		rssma_GetDMEMState
		rssma_SetDMEMMode
		rssma_GetDMEMMode
		rssma_SetDMEMPulseShape
		rssma_GetDMEMPulseShape
		rssma_SetDMEMPulseRise
		rssma_GetDMEMPulseRise
		rssma_SetDMEMPulseWidth
		rssma_GetDMEMPulseWidth
		rssma_SetDMEMPulseFall
		rssma_GetDMEMPulseFall
		rssma_SetDMEMPulseSpacing
		rssma_GetDMEMPulseSpacing
		rssma_SetDMEMSQUITTER
		rssma_GetDMEMSQUITTER
		rssma_SetDMEMRate
		rssma_GetDMEMRate
		rssma_SetDMEMECHO_PULSE
		rssma_GetDMEMECHO_PULSE
		rssma_SetDMEMECHO_ATTENUATION
		rssma_GetDMEMECHO_ATTENUATION
		rssma_SetDMEMECHO_DELAY
		rssma_GetDMEMECHO_DELAY
		rssma_SetDMEMTRIGGERMODE
		rssma_GetDMEMTRIGGERMODE
		rssma_SetDMEMTRIGGERDELAY
		rssma_GetDMEMTRIGGERDELAY
		rssma_SetDMEMEXTERNALINPUTIMPEDANCE
		rssma_GetDMEMEXTERNALINPUTIMPEDANCE
		rssma_SetDMEMEXTTRIGGERINPUTSLOPE
		rssma_GetDMEMEXTTRIGGERINPUTSLOPE
		rssma_SetDMEMRANGEDISTANCE
		rssma_GetDMEMRANGEDISTANCE
		rssma_SetDMEMLOWSPECTRALEMISSION
		rssma_GetDMEMLOWSPECTRALEMISSION
		rssma_SetDMEMCHANNELSUFFIX
		rssma_GetDMEMCHANNELSUFFIX
		rssma_SetDMEMREPLYEFFICIENCY
		rssma_GetDMEMREPLYEFFICIENCY
		rssma_SetDMEM_SINGLE_PULSE

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_GetDMEMSinglePulse rssma_GetDMEMAnalysisReplyEfficiency rssma_SetDMEMReplyEfficiencyState rssma_GetDMEMReplyEfficiencyState rssma_SetDMEMMeasurementCount rssma_GetDMEMMeasurementCount rssma_SetDMEMExpectedReplyDelay rssma_GetDMEMExpectedReplyDelay rssma_SetDMEMGateLength rssma_GetDMEMGateLength rssma_GetDMEMNormalize rssma_GetDMEMPeakLevel rssma_SetDMEMPeakLevelState rssma_GetDMEMPeakLevelState rssma_GetDMEMPulseRepetitionFrequency rssma_SetDMEMPulseRepetitionFrequencyState rssma_GetDMEMPulseRepetitionFrequencyState rssma_SetDMEMAnalysisState rssma_GetDMEMAnalysisState rssma_GetDMEMReplyDelay rssma_SetDMEMReplyDelayState rssma_GetDMEMReplyDelayState rssma_confDMEMId rssma_DMEMIdPreset rssma_SetDMEMIdState rssma_GetDMEMIdState rssma_SetDMEMIdCode rssma_GetDMEMIdCode rssma_SetDMEMIdDotLength rssma_GetDMEMIdDotLength rssma_SetDMEMIdPeriod rssma_GetDMEMIdPeriod rssma_SetDMEMIdFrequency rssma_GetDMEMIdFrequency rssma_SetLSGSMCarrierFrequencyStep rssma_GetLSGSMCarrierFrequencyStep rssma_SetLSGSMICAChannel rssma_GetLSGSMICAChannel rssma_SetLSLOCMCarrierFrequencyStep rssma_GetLSLOCMCarrierFrequencyStep rssma_SetLSLOCMICAChannel

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_GetLSLOCMICAOChannel rssma_confCHIRP rssma_confCHIRPTrigger rssma_SetCHIRPTriggerMode rssma_GetCHIRPTriggerMode rssma_SetCHIRPTriggerSlope rssma_GetCHIRPTriggerSlope rssma_SetCHIRPTriggerLevel rssma_GetCHIRPTriggerLevel rssma_SetCHIRPGatePolarity rssma_GetCHIRPGatePolarity rssma_SetCHIRPExternalImpedance rssma_GetCHIRPExternalImpedance rssma_SetCHIRPDirection rssma_GetCHIRPDirection rssma_SetCHIRPState rssma_GetCHIRPState rssma_SetCHIRPBandwidth rssma_GetCHIRPBandwidth rssma_SetCHIRPPulsePeriod rssma_GetCHIRPPulsePeriod rssma_SetCHIRPPulseWidth rssma_GetCHIRPPulseWidth rssma_GetCHIRPCompressionRatio rssma_ConfigureRFPhaseContinuousFrequencySettings rssma_SetRFPhaseContinuousActive rssma_GetRFPhaseContinuousActive rssma_SetRFPhaseContinuousFrequencyRange rssma_GetRFPhaseContinuousFrequencyRange rssma_GetRFPhaseContinuousMinimumFrequency rssma_GetRFPhaseContinuousMaximumFrequency rssma_SetALCOffMode rssma_GetALCOffMode rssma_SetPowerFilterFixedNoiseContent rssma_GetPowerFilterFixedNoiseContent rssma_SetPowerFilterFixedNoiseTimeout rssma_GetPowerFilterFixedNoiseTimeout rssma_CALibrationFMOffset rssma_CALibrationDMEMPulseSlope rssma_SetImageFileName rssma_GetImageFileName

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_SetImageFormat rssma_GetImageFormat rssma_GetImageSnapshot rssma_PresetSignalPath rssma_GetSYSTEMStartupStatus rssma_SetAngleUnits rssma_GetAngleUnits rssma_SetPowerUnits rssma_GetPowerUnits rssma_SetVelocityUnits rssma_GetVelocityUnits rssma_DevicePreset Modified functions: rssma_init (USB support added) rssma_SetPULMDelay rssma_SetPULMDoubleDelay rssma_GetVORMState rssma_GetVORMCOMIDState rssma_GetLSLOCMState rssma_GetLSLOCMCOMIDState rssma_GetMBMState rssma_GetMBMCOMIDState rssma_GetADFMState rssma_SetPowerFilterMode rssma_GetPowerFilterMode rssma_CALibrationLevel rssma_readToFile rssma_revision_query
2.04	02/2008	Driver update for SMA100A Firmware 2.04.299 Fixed range of CSYN frequency Added functions: rssma_SetLSLOCMDDMCoupling rssma_GetLSLOCMDDMCoupling rssma_SetLSGSMDDMCoupling rssma_GetLSGSMDDMCoupling Removed functions: rssma_SetCSYNPowerOutputMode rssma_GetCSYNPowerOutputMode
2.02.01	12/2007	Driver update for SMA100A Firmware 2.02

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<p>Modifications</p> <p>Modified K24 option checking in functions:</p> <ul style="list-style-type: none"> rssma_SetAMInternalSource rssma_configAM rssma_SetFMInternalDeviation rssma_GetFMInternalDeviation rssma_confFMInternal rssma_SetLFGGenSource rssma_SetPMInternalDeviation rssma_GetPMInternalDeviation rssma_confPMInternal
2.02.00	04/2007	<p>Driver update for SMA100A Firmware 2.02</p> <p>Modifications</p> <p>New Functions:</p> <ul style="list-style-type: none"> rssma_SetLFSweepSource rssma_GetLFSweepSource rssma_ConfigureVORModulation rssma_ConfigureVORMCOMID rssma_SetVORMState rssma_GetVORMState rssma_SetVORMMode rssma_GetVORMMode rssma_SetVORMBearingAngle rssma_GetVORMBearingAngle rssma_SetVORMDirection rssma_GetVORMDirection rssma_SetVORMVARREFFrequency rssma_GetVORMVARREFFrequency rssma_SetVORMVARDepth rssma_GetVORMVARDepth rssma_SetVORMSubcarrierFrequency rssma_GetVORMSubcarrierFrequency rssma_SetVORMSubcarrierDepth rssma_GetVORMSubcarrierDepth rssma_SetVORMREFDeviation rssma_GetVORMREFDeviation rssma_SetVORMToDefault rssma_SetVORMCOMIDState rssma_GetVORMCOMIDState rssma_SetVORMCOMIDCode

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_GetVORMCOMIDCode rssma_SetVORMCOMIDFrequency rssma_GetVORMCOMIDFrequency rssma_SetVORMCOMIDDepth rssma_GetVORMCOMIDDepth rssma_SetVORMEXTAM rssma_GetVORMEXTAM rssma_ConfigureILSGSModulation rssma_SetILSGSMState rssma_GetILSGSMState rssma_SetILSGSMMode rssma_GetILSGSMMode rssma_SetILSGSMDDMDepth rssma_GetILSGSMDDMDepth rssma_SetILSGSMDDMCurrent rssma_GetILSGSMDDMCurrent rssma_SetILSGSMDDMLogarithmic rssma_GetILSGSMDDMLogarithmic rssma_SetILSGSMFly rssma_GetILSGSMFly rssma_SetILSGSMSumOfDepth rssma_GetILSGSMSumOfDepth rssma_SetILSGSMUpFrequency rssma_GetILSGSMUpFrequency rssma_SetILSGSMDownFrequency rssma_GetILSGSMDownFrequency rssma_SetILSGSMUpDownPhase rssma_GetILSGSMUpDownPhase rssma_SetILSGSMTToDefault rssma_SetILSGSMEXTAM rssma_GetILSGSMEXTAM rssma_ConfigureILSLOCMModulation rssma_ConfigureILSLOCMCOMID rssma_SetILSLOCMState rssma_GetILSLOCMState rssma_SetILSLOCMMode rssma_GetILSLOCMMode rssma_SetILSLOCMDDMDepth rssma_GetILSLOCMDDMDepth rssma_SetILSLOCMDDMCurrent rssma_GetILSLOCMDDMCurrent

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_SetLSLOCMDDMLogarithmic rssma_GetLSLOCMDDMLogarithmic rssma_SetLSLOCMFly rssma_GetLSLOCMFly rssma_SetLSLOCMSumOfDepth rssma_GetLSLOCMSumOfDepth rssma_SetLSLOCMLeftFrequency rssma_GetLSLOCMLeftFrequency rssma_SetLSLOCMLRightFrequency rssma_GetLSLOCMLRightFrequency rssma_SetLSLOCMLLeftRightPhase rssma_GetLSLOCMLLeftRightPhase rssma_SetLSLOCMTToDefault rssma_SetLSLOCMCOMIDState rssma_GetLSLOCMCOMIDState rssma_SetLSLOCMCOMIDCode rssma_GetLSLOCMCOMIDCode rssma_SetLSLOCMCOMIDFrequency rssma_GetLSLOCMCOMIDFrequency rssma_SetLSLOCMCOMIDDepth rssma_GetLSLOCMCOMIDDepth rssma_SetLSLOCMEXTAM rssma_GetLSLOCMEXTAM rssma_ConfigureMBModulation rssma_ConfigureMBMCOMID rssma_SetMBMState rssma_GetMBMState rssma_SetMBMMarkerFrequency rssma_GetMBMMarkerFrequency rssma_SetMBMMarkerDepth rssma_GetMBMMarkerDepth rssma_SetMBMPulsedMarker rssma_GetMBMPulsedMarker rssma_SetMBMCOMIDState rssma_GetMBMCOMIDState rssma_SetMBMCOMIDCode rssma_GetMBMCOMIDCode rssma_SetMBMCOMIDFrequency rssma_GetMBMCOMIDFrequency rssma_SetMBMCOMIDDepth rssma_GetMBMCOMIDDepth

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_SetMBMToDefault rssma_ConfigureADFMCOMID rssma_SetADFMState rssma_GetADFMState rssma_SetADFMCOMIDState rssma_GetADFMCOMIDState rssma_SetADFMCOMIDCode rssma_GetADFMCOMIDCode rssma_SetADFMCOMIDFrequency rssma_GetADFMCOMIDFrequency rssma_SetADFMCOMIDDepth rssma_GetADFMCOMIDDepth rssma_ConfigurePower rssma_PowerSensorDevice rssma_PowerSensorType rssma_PowerReadPower rssma_SetPowerUnit rssma_GetPowerUnit rssma_PowerZero rssma_SetPowerSource rssma_GetPowerSource rssma_SetPowerFrequency rssma_GetPowerFrequency rssma_PowerSensorSerialNumber rssma_SetPowerFilterLength rssma_GetPowerFilterLength rssma_SetPowerFilterMode rssma_GetPowerFilterMode rssma_GetPowerFilterLengthAuto rssma_PowerFilterSearchOnce rssma_SetLISTImportExportListMode rssma_GetLISTImportExportListMode rssma_SetLISTImportExportListFile rssma_GetLISTImportExportListFile rssma_ImportExportExecute rssma_SetLISTImportExportASCIIFile rssma_GetLISTImportExportASCIIFile rssma_SetLISTImportExportASCIIExtension rssma_GetLISTImportExportASCIIExtension rssma_SetLISTImportExportASCIIColumnSeparator rssma_GetLISTImportExportASCIIColumnSeparator

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rssma_SetLISTImportExportASCIIColumnDecimalSeparator rssma_GetLISTImportExportASCIIColumnDecimalSeparator rssma_LISTImportExportCatalog rssma_SetKeyboardLayout rssma_GetKeyboardLayout rssma_SetKeyboardLanguage rssma_GetKeyboardLanguage rssma_SetDisplayPowerSaveState rssma_GetDisplayPowerSaveState rssma_SetDisplayPowerSaveHoldoff rssma_GetDisplayPowerSaveHoldoff rssma_SetDisplayBlankMode rssma_GetDisplayBlankMode rssma_SetDisplayProportionalScale rssma_GetDisplayProportionalScale rssma_SYSTEMUSBResource rssma_GetSYSTEMBIOSVersion rssma_SetSYSTEMIdentification rssma_GetSYSTEMIdentification rssma_SetSYSTEMNetworkIPAddress rssma_GetSYSTEMNetworkIPAddress rssma_SetSYSTEMNetworkIPAddressSubnetMask rssma_GetSYSTEMNetworkIPAddressSubnetMask rssma_SetSYSTEMNetworkIPAddressGateway rssma_GetSYSTEMNetworkIPAddressGateway rssma_SetSYSTEMNetworkIPAddressMode rssma_GetSYSTEMNetworkIPAddressMode rssma_SYSTEMNetworkIPAddressExecute rssma_SetSYSTEMNetworkCommonWorkgroup rssma_GetSYSTEMNetworkCommonWorkgroup rssma_SetSYSTEMNetworkCommonDomain rssma_GetSYSTEMNetworkCommonDomain rssma_SetSYSTEMNetworkCommonHostname rssma_GetSYSTEMNetworkCommonHostname rssma_SYSTEMNetworkCommonExecute rssma_SetSYSTEMNetworkDNSAutoState rssma_GetSYSTEMNetworkDNSAutoState rssma_SetSYSTEMNetworkPreferredDNS rssma_GetSYSTEMNetworkPreferredDNS rssma_SetSYSTEMNetworkAlternateDNS rssma_GetSYSTEMNetworkAlternateDNS

rssma Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<p>rssma_SetSYSTEMNetworkDNSMode rssma_GetSYSTEMNetworkDNSMode rssma_SYSTemNetworkDNSExecute rssma_SetSYSTEMNetworkDomain rssma_GetSYSTEMNetworkDomain rssma_SetSYSTEMNetworkGateway rssma_GetSYSTEMNetworkGateway rssma_GetSYSTEMNetworkResource rssma_SetSYSTEMNetworkSubnetMask rssma_GetSYSTEMNetworkSubnetMask rssma_SetSYSTEMNetworkWorkgroup rssma_GetSYSTEMNetworkWorkgroup rssma_SetSYSTEMNetworkPTOP rssma_GetSYSTEMNetworkPTOP rssma_GetSYSTEMNetworkMACAddress rssma_GetSYSTEMNetwork rssma_optionCheckState</p> <p>Modified functions: rssma_SetSYSTEMProtect rssma_defaultInstrSetup</p>
1.0	05/2006	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



Regional contact

Europe, Africa, Middle East

+49 89 4129 12345

customersupport@rohde-schwarz.com

North America

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

customer.support@rsa.rohde-schwarz.com

Latin America

+1-410-910-7988

customersupport.la@rohde-schwarz.com

Asia/Pacific

+65 65 13 04 88

customersupport.asia@rohde-schwarz.com

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG; Trade names are trademarks of the owners.

Rohde & Schwarz GmbH & Co. KG

Mühlhofstraße 15 | D - 81671 München

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

www.rohde-schwarz.com