

History and release notes for the R&S EMI Test Receiver R&S ESCI, ESU and R&S Test Receiver R&S ESPI

Contents

Contents	1
Driver history.....	2
LabWindows/CVI	9
Additional Help	9
VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.....	9
Additional Help	9
Additional Information	9

Driver history		
Revision	Date	Note
4.73.0	10/2013	<ul style="list-style-type: none"> * Modified functions - rresci_SetResolutionBandwidthFilterType - Added MIL - rresci_GetResolutionBandwidthFilterType - Added MIL * New functions - rresci_SetRFInputSwitchoverFrequency - rresci_GetRFInputSwitchoverFrequency - rresci_SetSwitchoverFrequencyHighpass - rresci_GetSwitchoverFrequencyHighpass - rresci_ClearAllActiveTraces - rresci_GetIQTraceTriggerPositionInSample - rresci_SetPeakListState - rresci_GetPeakListState - rresci_SetPeakListAutoSearchState - rresci_GetPeakListAutoSearchState - rresci_ReadMarkerPeakList - rresci_SaveSEConfiguration - rresci_LoadSEConfiguration - rresci_DeleteSEConfiguration - rresci_SpuriousEmissionsConfigurationCatalog - rresci_SetAnalogDemodulationCCIRUnweightedFilterState - rresci_GetAnalogDemodulationCCIRUnweightedFilterState - rresci_SetAnalogDemodulationCCIRWeightedFilterState - rresci_GetAnalogDemodulationCCIRWeightedFilterState - rresci_SetAnalogDemodulationAWeightedFilterState - rresci_GetAnalogDemodulationAWeightedFilterState
4.42.0	01/2012	<p>Modifications:</p> <p>Driver update for R&S EMI Test Receivers firmware 4.42</p> <ul style="list-style-type: none"> * New functions - rresci_SetLowNoisePreamplifier - rresci_GetLowNoisePreamplifier - rresci_SetSwitchoverFrequencyHighpass - rresci_GetSwitchoverFrequencyHighpass
4.40.1	04/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * New features - Added support for ESPI-K50 Firmware Option * New functions - rresci_SetChannelList - rresci_GetChannelList - rresci_SetChannelListScan - rresci_GetChannelListScan - rresci_SetChannelListStore - rresci_GetChannelListStore - rresci_SetTraceSingle - rresci_GetTraceSingle - rresci_SetTraceScan
4.40.0	05/2010	<p>Driver update for R&S EMI Test Receivers firmware 4.4x</p> <p>Added support for ESPI instruments</p> <p>New features</p> <ul style="list-style-type: none"> - ACP User Standard <p>New functions</p> <ul style="list-style-type: none"> - rresci_SetPLLBandwidthSynchronization - rresci_GetPLLBandwidthSynchronization - rresci_SetThirdOrderInterceptFunction

Driver history		
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		<ul style="list-style-type: none"> - rresci_GetThirdOrderInterceptFunction - rresci_GetHarmonicBandwidthResolution <p>Updates and fixes</p> <ul style="list-style-type: none"> - rresci_SetExternalReferenceOscillator - rresci_AutomaticSignalSearch - added wait for *OPC
4.30.1	06/2009	<p>Modifications:</p> <ul style="list-style-type: none"> - Removed range checking of array size in function rresci_SetTransducerFactorValues
4.30.0	05/2009	<p>Driver update for ESCI Firmware 4.32 and ESU firmware 4.33</p> <p>* New features</p> <ul style="list-style-type: none"> - Rectangular Calibration Signal - Gated Ranges <p>* Added functions</p> <ul style="list-style-type: none"> - rresci_SetScanLowNoisePreamplifierState - rresci_GetScanLowNoisePreamplifierState - rresci_SetScanInput - rresci_GetScanInput - rresci_SetScanPoints - rresci_SetAutoMarkerSearch - rresci_GetAutoMarkerSearch - rresci_SetSESweepLimit - rresci_GetSESweepLimit - rresci_SetSESweepLimitState - rresci_GetSESweepLimitState - rresci_SetPeakSearchAuto - rresci_GetPeakSearchAuto - rresci_SetPeakSearchAddition - rresci_ClearPeakSearchList - rresci_SendExternalGeneratorCommand - rresci_QueryExternalGeneratorCommand - rresci_GetActiveLimitLines - rresci_GetActiveWindow - rresci_SetXAxisDisplaySpacing - rresci_GetXAxisDisplaySpacing - rresci_SetXAxisDisplayZoom - rresci_GetActiveTransducerFactor - rresci_GetTransducerSetCatalog - rresci_SetIFShift - rresci_GetIFShift - rresci_StorePeakList - rresci_StoreMarkers <p>* Updates and fixes</p> <ul style="list-style-type: none"> - rresci_DataSetItems - added new items - rresci_SetHardcopyOutput - fixed command for REPORT mode
3.8.0	08/2006	<p>Driver update for ESCI Firmware 3.82 and ESU Firmware 3.83</p> <ul style="list-style-type: none"> - ESU support added <p>- New functions:</p> <ul style="list-style-type: none"> rresci_checkModel rresci_ParseCatalog rresci_ResetRFInputAttenuationProtection rresci_SetRFInputType

Driver history

Revision	Date	Note
		rsesci_GetRFInputType rsesci_ConfigureInputMixerLevel rsesci_SetInputMixerLevelState rsesci_GetInputMixerLevelState rsesci_SetInputMixerPower rsesci_GetInputMixerPower rsesci_SetMainPLLBandwidth rsesci_GetMainPLLBandwidth rsesci_SetFFTFilterMode rsesci_GetFFTFilterMode rsesci_SetIFBandwidth rsesci_GetIFBandwidth rsesci_SetTriggerOffsetAdjust rsesci_GetTriggerOffsetAdjust rsesci_SetTraceResetBehavior rsesci_GetTraceResetBehavior rsesci_ReadIQTraceDataMemoryAIQ rsesci_SetYIGCorrectionState rsesci_GetYIGCorrectionState rsesci_SetMarkerCoupling rsesci_GetMarkerCoupling rsesci_SetLinkMarkerAndDeltaMarkerState rsesci_GetLinkMarkerAndDeltaMarkerState rsesci_SetSquelchAnalyzer rsesci_GetSquelchAnalyzer rsesci_InitiateSpurious rsesci_SetPowerUnit rsesci_GetPowerUnit rsesci_SetPowerMode rsesci_GetPowerMode rsesci_QuerySignalStatisticCCDFLevel rsesci_SetStatisticsYAxisUnit rsesci_GetStatisticsYAxisUnit rsesci_SetMultiplePowerMeasurementAveraging rsesci_GetMultiplePowerMeasurementAveraging rsesci_SetHDistState rsesci_GetHDistState rsesci_SetNumberOfHDist rsesci_GetNumberOfHDist rsesci_SetHDistBandwidthState rsesci_GetHDistBandwidthState rsesci_AdjustHDistSettings rsesci_GetHDist rsesci_GetHDistHarmonicsList rsesci_SetSEMode rsesci_GetSEMode rsesci_ConfigureSESweepRange rsesci_SetSESweepStart rsesci_GetSESweepStart rsesci_SetSESweepStop rsesci_GetSESweepStop rsesci_SetSESweepFilter rsesci_GetSESweepFilter rsesci_SetSESweepRBW rsesci_GetSESweepRBW rsesci_SetSESweepVBW rsesci_GetSESweepVBW

Driver history

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		rsesci_SetSESweepTimeAuto rsesci_GetSESweepTimeAuto rsesci_SetSESweepTime rsesci_GetSESweepTime rsesci_SetSESweepDetector rsesci_GetSESweepDetector rsesci_SetSESweepRefLevel rsesci_GetSESweepRefLevel rsesci_SetSESweepAttenuatorAuto rsesci_GetSESweepAttenuatorAuto rsesci_SetSESweepAttenuatorValue rsesci_GetSESweepAttenuatorValue rsesci_SetSESweepPoints rsesci_GetSESweepPoints rsesci_SetSESweepStopAfterSweep rsesci_GetSESweepStopAfterSweep rsesci_SetSESweepTransducerFactor rsesci_GetSESweepTransducerFactor rsesci_SetSEPreamplifierState rsesci_GetSEPreamplifierState rsesci_SEDeleteRange rsesci_GetSENumberOfListRanges rsesci_StoreSEToFile rsesci_ReadSEPeakList rsesci_InitiateFinalMeasurementTest rsesci_InitiateEMITest rsesci_SetVnetworkProtectionEarthFinalMeasurement rsesci_GetVnetworkProtectionEarthFinalMeasurement rsesci_SetVnetworkPhaseFinalMeasurement rsesci_GetVnetworkPhaseFinalMeasurement rsesci_SetVnetworkHighPass rsesci_GetVnetworkHighPass rsesci_SetSquelchReceiver rsesci_GetSquelchReceiver rsesci_GetCurrentResults rsesci_GetCurrentYResult rsesci_ConfigureTrackingGeneratorPowerSweep rsesci_SetTrackingGeneratorPowerSweepMode rsesci_GetTrackingGeneratorPowerSweepMode rsesci_SetTrackingGeneratorPowerSweepStart rsesci_GetTrackingGeneratorPowerSweepStart rsesci_SetTrackingGeneratorPowerSweepStop rsesci_GetTrackingGeneratorPowerSweepStop rsesci_TrackingGeneratorSaveAsTrdFactor rsesci_GetLimitLineCatalog rsesci_SetExternalReferenceOscillatorFrequency rsesci_GetExternalReferenceOscillatorFrequency rsesci_GetTransducerFactorCatalog rsesci_DataSetCatalogLong rsesci_SetHardcopyOutput rsesci_GetHardcopyOutput rsesci_CreateNewTestReport rsesci_AppendTestReport rsesci_SetTestReportDefaultSettings rsesci_ConfigureTestReportPageSettings rsesci_QueryTestReportPageSettings rsesci_SetTestReportHeaderLineState

Driver history

Revision	Date	Note
		rsesci_GetTestReportHeaderLineState rsesci_SetTestReportHeaderLogoState rsesci_GetTestReportHeaderLogoState rsesci_SetTestReportHeaderLineTitle rsesci_GetTestReportHeaderLineTitle rsesci_SetTestReportHeaderLineText rsesci_GetTestReportHeaderLineText rsesci_TestReportOperations rsesci_LoadLogo rsesci_GetTestReportCatalog rsesci_ReadAdditionalMeasurementData rsesci_AutomaticSignalSearch rsesci_ConfigureAnalogDemodulationFilter rsesci_SetAnalogDemodulationFilterState rsesci_GetAnalogDemodulationFilterState rsesci_SetAnalogDemodulationFilterFrequency rsesci_GetAnalogDemodulationFilterFrequency rsesci_SetAnalogDemodulationFilterDeemphasis rsesci_GetAnalogDemodulationFilterDeemphasis rsesci_SetAnalogDemodulationPhaseWrap rsesci_GetAnalogDemodulationPhaseWrap rsesci_SetAnalogDemodulationZeroPhaseRefPoint rsesci_GetAnalogDemodulationZeroPhaseRefPoint rsesci_GetAMModulationMeasurement rsesci_SetReceiverDetectorWithCRMS rsesci_GetReceiverDetectorWithCRMS rsesci_SetCalibrationSignalDestination rsesci_GetCalibrationSignalDestination rsesci_SetCalibrationSignalVoltage rsesci_GetCalibrationSignalVoltage rsesci_SetCalibrationSignalPulseFrequency rsesci_GetCalibrationSignalPulseFrequency rsesci_SetCalibrationSignalBasebandSource rsesci_GetCalibrationSignalBasebandSource rsesci_SetYAxisScaleDivision rsesci_GetYAxisScaleDivision rsesci_SetAFFullSpan rsesci_SetDemodulationBandwidth rsesci_GetDemodulationBandwidth rsesci_SetFrequencyFullSpan - Modified functions: rsesci_SetInstrumentMode rsesci_GetInstrumentMode rsesci_SetMixedInstrumentMode rsesci_GetMixedInstrumentMode rsesci_SetFrequencyMode rsesci_GetFrequencyMode rsesci_SetLevelAxisUnit rsesci_GetLevelAxisUnit rsesci_SetSweepSpacing rsesci_GetSweepSpacing rsesci_SetTraceDetector rsesci_GetTraceDetector rsesci_SetCPACPStandard rsesci_GetCPACPStandard rsesci_SetNumberAdjacentChannels rsesci_SetNumberTXChannels

Driver history

Revision	Date	Note
		rsesci_SetTXACPChannelBandwidth rsesci_GetTXACPChannelBandwidth rsesci_SetACPChannelSpacing rsesci_GetACPChannelSpacing rsesci_SetACPLimits rsesci_GetACPLimits rsesci_GetACPLimitCheckingResult rsesci_GetSignalAmplitudeStatistics rsesci_SetFinalReceiverDetector rsesci_GetFinalReceiverDetector rsesci_SetVnetworkType rsesci_GetVnetworkType rsesci_SetLimitLineUnit rsesci_GetLimitLineUnit rsesci_SetTransducerFactorUnit rsesci_GetTransducerFactorUnit rsesci_DataSetItems rsesci_WriteTraceData rsesci_ReadTraceData rsesci_SetExternalGeneratorPower rsesci_GetExternalGeneratorPower rsesci_SetTriggerLevel rsesci_GetTriggerLevel rsesci_GetLimitLineThreshold rsesci_MultipleBurstPowerMeasurementResult rsesci_MultipleBurstPowerMeasurementResultMinimum rsesci_GetExternalFM rsesci_setStatusRegister rsesci_getStatusRegister rsesci_SetAnalogDemodulatorResultDisplay rsesci_SetTimeDomainResultTypes rsesci_GetTimeDomainResultValues rsesci_SetTriggerSource rsesci_GetTriggerSource rsesci_SetTraceDetectorAuto rsesci_GetTraceDetectorAuto rsesci_SetSweepPoints rsesci_GetSweepPoints rsesci_SetMarkerZoom rsesci_error_message rsesci_CalibrationResults rsesci_init (for VXI-11) rsesci_close (for VXI-11)
1.0.4	02/2006	Modifications: - FORM ASCII restored after setting binary transfer
1.0.3	05/2005	Modifications: - VxIpnP msi installer changed (generated new GUID due to conflict with existing installers)
1.0.2	09/2004	Modifications: - New function: rsesci_InitiateHardcopyToFile
1.0.1	08/2004	Modifications: - Remote-control command's description modified (removed colon ":" at begin) - Saving and Recalling Data Sets group is splitted (added File Group) - Group Firmware Update is extended with Compatibility Mode - New function rsesci_CompatibilityMode - Default instrument string is extended by "SYST:PRES:COMP OFF" command

Driver history		
Revision	Date	Note
1.0	07/2004	Created.

LabWindows/CVI

Additional Help

The LabWindows/CVI instrument driver consists of a ZIP archive containing the driver sources. In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources.

VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Additional Help

In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources in the ~\VXI\np\WinNT\rsesci directory.

Additional Information

For more information regarding the VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.