

Driver history for Signal Analyzers R&S® FSQ, R&S® FSG, Signal Source Analyzers R&S® FSUP and Measuring Receiver R&S® FSMR

Contents

| | |
|---|---|
| Contents | 1 |
| FSQ, FSG, FSUP, FSMR driver history | 1 |

| FSQ, FSG, FSUP, FSMR driver history | | |
|-------------------------------------|---------|---|
| Revision | Date | Note |
| 4.40.0 | 10/2009 | <p>Driver update for FSQ/G/FSUP/FSMR Spectrum Analyzer Firmware 4.4x</p> <ul style="list-style-type: none"> * Added Spectrum Emission Mask Measurement Old SEM functions deleted rsfsq_confSEGetMeasurementPeakList renamed to rsfsq_ReadSEMeasurementPeakList * Added functions: <ul style="list-style-type: none"> rsfsq_actDigitalBasebandInputConfiguration rsfsq_actDigitalBasebandOutputConfiguration rsfsq_actSAMLoadTraceFromFile rsfsq_confWiMAXTTCStart rsfsq_actPreambleChannelFrequencyResponseSelect rsfsq_actSAMAdjustRefLevelToCP rsfsq_confSELimitStartStop rsfsq_confWiMAXZoneMatrix rsfsq_confWiMAXZoneSpaceTimeCoding rsfsq_confWiMAXZoneBurstMatrix rsfsq_confReferenceOscExternalPLLBandwidth rsfsq_ChannelPowerWeightingFilters rsfsq_confSAMAdjustRefLevelOffset rsfsq_confSAMSigStatMeanPowerPosition rsfsq_confTOIPositioning rsfsq_getReferenceOscSource rsfsq_ChannelPowerStandardCatalog rsfsq_ChannelPowerSetUserStandard rsfsq_ChannelPowerUserStandardSave rsfsq_ChannelPowerUserStandardDelete rsfsq_actHarmDistBwidList * FSMR support: <ul style="list-style-type: none"> rsfsq_confFrequencyCouplingFactor rsfsq_confAveraging rsfsq_confAveragingType rsfsq_confAveragingCount rsfsq_confExternalGateTrace rsfsq_confMainPLLBwid rsfsq_confDisplayPowerSave rsfsq_confTransducerComment rsfsq_confMarkYPosition rsfsq_MarkerReference |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|---|
| | | <p>rsfsq_confSAMMarkContinuousDemod rsfsq_confMarkerZoom rsfsq_confSSAPhaseAFCLimits rsfsq_confSSAPhaseSmoothingAperture rsfsq_confSSAPhaseSmoothingType rsfsq_confSSAPhaseInternalGenerator rsfsq_confSSAPhaseNoisePulsedFrequencyMode rsfsq_confSSAPhaseMarkerReference rsfsq_confSSATransientFilterSettings rsfsq_confSSATransientSquelchSettings rsfsq_confSSAAmplitudeNoiseState rsfsq_confSSAVCOLoopPhaseDetectorCharacteristics rsfsq_confSSAVCOLoopPhaseDetectorVoltageOffset rsfsq_confSSAVCOLoopAMDetectorSettings rsfsq_CalibrationAbort rsfsq_CalibrationResult rsfsq_ServiceConfigureRectangleInput rsfsq_actPeakListToFile rsfsq_SettingsFileComment rsfsq_AbortHardcopy rsfsq_actSSAResidualPhaseNoiseMeasurement rsfsq_actSSAVCOPhaseDetectorVoltage rsfsq_actSSAVCOAMDetectorEstimatedInputLevel rsfsq_actSSAAmplitudeNoisePremeasurement rsfsq_actSSAStoreSpursToFile</p> <p>* Modified functions: rsfsq_confTraceIQ - removed range checking of sampling rate, bandwidth, no. of samples and pretrigger samples rsfsq_confTraceIQSrate - removed range checking of sampling rate rsfsq_setStatusRegister, rsfsq_getStatusRegister - added DIQ (B17) register rsfsq_actWCDPMarkMeas - added Average RCDE for 64QAM rsfsq_actWCDPMSMarkMeas - 4PAM Average of residual code domain errors rsfsq_dataReadTraceWCDP - added 'List' and 'Power vs Slot' result type rsfsq_confFileDataRaw - added Binary format rsfsq_dataFetchWLANEVMResults - added Preamble rsfsq_writeFromFile - changed size of command buffer rsfsq_confWiMAXZoneBurstModulation - added HARQ and Fast Feedback rsfsq_confWiMAXZoneBurstType - added 64 QAM code rate 5/6 rsfsq_confSEGetMeasurementPeakList moved and renamed to rsfsq_ReadSEMeasurementPeakList rsfsq_confReferenceOsc rsfsq_confSAMMarkChPowChanStandard rsfsq_setStatusRegister rsfsq_getStatusRegister</p> <p>* FSMR support: rsfsq_confSSADCPortsSettings rsfsq_actSSAPhaseTraceSmoothingState rsfsq_actMemOp rsfsq_actSSAPhaseTraceSmoothingState rsfsq_dataFetchSSAVCOTuningCharResults rsfsq_configHardcopyColors</p> |
| 4.30.0 | 01/2009 | <p>Modifications: - Driver update for FSQ/G/FSUP/FSMR Spectrum Analyzer Firmware 4.3x</p> <p>Updated functions: rsfsq_confCoupExt</p> |

FSQ, FSG, FSUP, FSMR driver history

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|----------|---------|--|
| | | <p>rsfsq_confIFShift rsfsq_confWiMAXCreateNewZoneBurst rsfsq_confWiMAXConfigureZoneBurst rsfsq_confPhasNoisTraceMode rsfsq_confSEFilter rsfsq_actWCDPMarkMeas rsfsq_actWCDPMSMarkMeas rsfsq_dataFetchWiMAXBurstRMSResults</p> <p>New functions: rsfsq_confIFShiftFrequency rsfsq_confApplSetupRec rsfsq_confVSAMDigiModEVMOffState rsfsq_confCDPSyncToSlot rsfsq_confCDPUCPICH rsfsq_confWiMAXNumberOfAntennas rsfsq_confWiMAXConfigureZoneSpaceTimeCoding rsfsq_confPhasNoisFreqTolAbs rsfsq_actSEMPeakSearch rsfsq_actSEMMarkAllPeaks</p> |
| 4.25.0 | 01/2008 | <p>Modifications:</p> <ul style="list-style-type: none"> - Driver update for FSQ Spectrum Analyzer Firmware 4.25 - Driver update for FSG Spectrum Analyzer Firmware 4.29 - Driver update for FSMR Spectrum Analyzer Firmware 4.26 <p>- List of options:</p> <ul style="list-style-type: none"> - K5 GSM/EDGE (4.20) - K7 FM-Demodulator (4.20) - K8 Bluetooth (4.20) - K9 Power sensor measurements (4.20) - K30 Noise Figure and Gain Measurements (4.20) - K40 Phase Noise Measurements (4.20) - K70 Vector Signal Analysis (4.20) - K72 3GPP FDD Base Station Test (4.20) - K73 3GPP FDD User Equipment Test (4.20) - K74 3GPP HSDPA Base Station Test (4.20) - K76 TD-SCDMA Base Station Test (4.20) - K77 TD-SCDMA Mobile Station Test (4.20) - K82 cdma2000 Base Station Test (4.20) - K83 cdma2000/1xEV-DV Mobile Station Test (4.20) - K84 1xEV-DO Base Station Test (4.20) - K85 1xEV-DO Mobile Station Test (4.20) - K90 WLAN 802.11a/g Tests (4.20) - K91 WLAN 802.11 Tests (4.20) - K92 WiMAX IEEE 802.16-2004 TX Measurement (4.20) - K93 WiMAX IEEE 802.16-2004, IEEE 802.16e-2005 TX Tests (4.20) <p>- Updated functions:</p> <ul style="list-style-type: none"> - rsfsq_confTrg - IFP range changed - rsfsq_confTraceIQ - Number of samples range changed for B100 and B102 option - rsfsq_confCDPSlotSetsCount - range changed for B100 and B102 option <p>- New functions:</p> <ul style="list-style-type: none"> - rsfsq_getTransducerActive |

FSQ, FSG, FSUP, FSMR driver history

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|----------|------|--|
| | | <ul style="list-style-type: none"> - rsfsq_confTrackExtSendCmd - rsfsq_actLimitLines - rsfsq_getIDStringFactory - rsfsq_confSEMListEvaluationState - rsfsq_confSEMPeakSearch - rsfsq_ReadSEMListEvaluationResults - rsfsq_dataReadTraceOnly .. utility function - rsfsq_confFileHeader - rsfsq_confFileDataMode - rsfsq_confFileDataRaw - K5 option - New functions: <ul style="list-style-type: none"> - rsfsq_confGsmModulationSpectrumListAverage - rsfsq_confGsmExtendedSlotState - rsfsq_confGsmExtendedSlot - rsfsq_confGsmExtendedSlotCommonSettings - rsfsq_confGsmExtendedSlotParameters - rsfsq_confGsmExtendedSlotLimLineCtrl - rsfsq_confGsmExtendedSlotLimitLines - rsfsq_ReadGsmExtendedSlotPtempRef - rsfsq_FetchGsmExtendedSlotPtempRef - K7 option: <ul style="list-style-type: none"> - Updated functions: <ul style="list-style-type: none"> - rsfsq_confVSAMDemodFilt ... High pass filter frequency value 20 Hz, Low pass filter frequency value 23.0 kHz added - New functions: <ul style="list-style-type: none"> - rsfsq_confVSAMDemodFilterWeighting - rsfsq_confVSAMDemodTHDUnit - K8 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_actVSBToothPacketDataBits - rsfsq_dataVSBToothFMTrace - Upsated functions: <ul style="list-style-type: none"> - rsfsq_actBToothMeasMode ... new measurement added - K9 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_confPWRMeterRefLevelOffsetState - B71 option <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_setRFInTrigger - B17 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_confDigitalBasebandInput - rsfsq_confDigitalBasebandInputParameters - K30 option: <ul style="list-style-type: none"> - New function: <ul style="list-style-type: none"> - rsfsq_confNoiseXAxisFrequencyDisplay |

FSQ, FSG, FSUP, FSMR driver history

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|----------|------|---|
| | | <ul style="list-style-type: none"> - K72/K74 option: <ul style="list-style-type: none"> - Updated functions: <ul style="list-style-type: none"> - rsfsq_dataReadTraceWCDP ... CWCDP help updated, ATRACE2 added - rsfsq_actWCDPMarkMeas ... PSYMBOL and AChannel added - rsfsq_confWCDPMeasMode ... Frequency Error Vs. Slot measurement added - K73 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_confCDPEVMMeasInterval - Updated functions: <ul style="list-style-type: none"> - rsfsq_actWCDPMSMarkMeas ... values RHO, TOFF, EVMB, EVM, MTYP, ACH added - rsfsq_dataReadTraceWCDP ...RMS of EVM added - K77 option: <ul style="list-style-type: none"> - Updated functions: <ul style="list-style-type: none"> rsfsq_confCDPHighDynamic ... available for K77 - K84 option: <ul style="list-style-type: none"> - New function: <ul style="list-style-type: none"> - rsfsq_confCDPPVTLISTEval - rsfsq_readBDOPVTLISTEval - rsfsq_confCDPPVTBurstFit - rsfsq_confCDPPVTRestartOnFail - Updated functions: <ul style="list-style-type: none"> - rsfsq_confSEMPeaksPerRange ... supported with K84 - rsfsq_confSEMMargin ... supported with K84 - rsfsq_dataSEMResults ... supported with K84 - rsfsq_actEVDOPMarkMeas ... PDMax, PDMin, IPMMax added - K90/91/92/93 option <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsq_confWlanSEMMeasurement - rsfsq_confWiMAXFSBW - rsfsq_actWiMAXStoreFrameData - rsfsq_confWiMAXDisplayResultTable - rsfsq_FetchWiMAXUnmodulatedSubcarrierError - rsfsq_confWiMAXTTCTFrame - rsfsq_actWiMAXZoneReset - rsfsq_actWiMAXZoneBurstReset - rsfsq_actWiMAXAllLimits - rsfsq_confWiMAXTrackingBasedOn - rsfsq_confWiMAXCaptureCountAuto - rsfsq_confWiMAXNumberOfSubframesToAnalyze - rsfsq_confWiMAXFrameULControlRegionLength - rsfsq_confWiMAXUnmodSubcarrError - rsfsq_actWiMAXUnmodSubcarrErrorResult - rsfsq_dataFetchWiMAXZoneStatCount - rsfsq_actWiMAXBitstreamSelection - rsfsq_confWiMAXDLFramePreambleIndex - rsfsq_actWiMAXGetMarkerTTC - Updated functions: <ul style="list-style-type: none"> - rsfsq_confWiMAXDemodType - rsfsq_dataFetchWLANBurstAll ... Results help updated |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|--|
| | | - rsfsq_confWiMAXConfigureZoneBurst ... Slot Duration is available for ULMAP burst only |
| 4.0.7 | 11/2007 | Modifications: FSMR only: - Fixed rsfsq_confReceiverCorrection - Delete All I |
| 4.0.6 | 10/2007 | - Beta version of support of FSG Modifications: - Fixed data read format string rsfsq_dataReadTraceWLAN (serial interface only) rsfsq_dataReadTraceCDP (serial interface only) rsfsq_dataReadTraceC2k (serial interface only) rsfsq_dataReadTraceWCDP (serial interface only) rsfsq_dataReadTraceWCDMA (serial interface only) rsfsq_dataReadTrace (serial interface only) rsfsq_actWLANGetChannelPower rsfsq_actBurstPwrResult rsfsq_actMeasBurstPwrSeq rsfsq_actMeasListPwrSeq |
| 4.0.5 | 09/2007 | Driver for FSQ Spectrum Analyzer Firmware 4.00 Driver update for FSUP Firmware 4.17 Driver for FSMR Firmware 3.8x Support for: FSQ3, FSQ8, FSQ26, FSQ40 Options: B4, B9, B10, B12, FSU-B21, B23, B25, B71, B72, K5, K7, K8, K9, K30, K40, FSQ-K70, K72, K73, K74, K76, K77, K82, K83, K84, K85, FSQ-K90, FSQ-K91, FSQ-K92, FSQ-K93 FSUP8, FSUP26, FSUP50 Options: FSU-B4, FSP-B10, FSU-B21, FSU-B23, FSU-B25, K5, K7, K8, K9, K30, FSQ-K70, K72, K73, K74, K76, K77, K82, K83, K84, K85, FSMR3, FSMR26, FSMR50 Options: B2, B4, B9, B18, B19, B23, B25, B223, K4, K5, K30, K40, K70, K72, K73, K74, K76, K77, K82, K83, K84, K85 Modifications: - Driver update for FSUP Firmware 4.17 - Option checking redesigned - Modified Functions: rsfsq_actPhasNoisMarkerZoom rsfsq_defaultInstrSetup rsfsq_setStatusRegister rsfsq_GetStatusRegister rsfsq_confTraceIQ |
| 4.0.4 | 09/2007 | Modifications: - bas and vb files fixed |
| 4.0.3 | 07/2007 | Modifications: - New function for FS-K70: rsfsq_confVSAMDigiDemodWBPath - Updated Functions: rsfsq_confTraceIQ rsfsq_confTraceIQSrate rsfsq_confTraceIQExtBwFilter rsfsq_confFFTDitherInput rsfsq_setADEMBandwidth - function panel name corrected: |

FSQ, FSG, FSUP, FSMR driver history

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|----------|---------|---|
| | | rsfsq_confWiMAXCenterFrequency |
| 4.0.2 | 05/2007 | Modifications: - New functions for FS-K93: rsfsq_confWiMAXSEMMode rsfsq_confWiMAXSEMANalysis rsfsq_confWiMAXSEMPowerClass rsfsq_confWiMAXLoadSEMDData rsfsq_dataWiMAXSEMResults |
| 4.0.1 | 04/2007 | Modifications: - Added rsfsq_dataReadSymbolWindow - Modified rsfsq_dataReadSymbol (changed data type, fixed) |
| 4.0.0 | 12/2006 | <ul style="list-style-type: none"> - Driver update for FSQ Spectrum Analyzer Firmware 4.00 - Driver update for FSMR Firmware 3.8x - List of options: <ul style="list-style-type: none"> - K5 GSM/EDGE (4.00) - K7 FM-Demodulator (3.80) - K8 Bluetooth (3.80) - K9 Power sensor measurements (3.80) - K30 Noise Figure and Gain Measurements (4.00) - K40 Phase Noise Measurements (4.00) - K70 Vector Signal Analysis (4.00) - K72 3GPP FDD Base Station Test (4.00) - K73 3GPP FDD User Equipment Test (4.00) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (4.00) - K77 TD-SCDMA Mobile Station Test (4.00) - K82 cdma2000 Base Station Test (4.00) - K83 cdma2000/1xEV-DV Mobile Station Test (4.00) - K84 1xEV-DO Base Station Test (4.00) - K85 1xEV-DO Mobile Station Test (4.00) - K90 WLAN 802.11a/g Tests (4.00) - K91 WLAN 802.11 Tests (4.00) - K92 WiMAX IEEE 802.16-2004 TX Measurement (4.00) - K93 WiMAX IEEE 802.16-2004, IEEE 802.16e-2005 TX Tests (4.00) - New Functions: SE Get Measurement Peak List (rsfsq_confSEGetMeasurementPeakList) SE List Evaluation State (rsfsq_confSEListEvaluationState) Memory Size on Boards (rsfsq_memSizeBoards) - Updated Functions: Sweep Points (rsfsq_confSweepPoints) SE Sweep Points (rsfsq_confSESweepPoints) Trigger (rsfsq_confTrg) - K7 - Updated Functions: Vector Signal Analysis Mode (rsfsq_confVSAMDemodMode) - K9 - New Functions: PWR Meter Meas Time Manual (rsfsq_confPMetMeasTimeManual) - K72 - Updated Functions: Read WCDMA Trace Data (rsfsq_dataReadTraceWCDMA) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|--|
| | | <ul style="list-style-type: none"> - K76 - New Functions: CDP High Dynamic (rsfsq_confCDPHighDynamic) - Updated Functions: Configure CDP Measurement (rsfsq_confCDPMeas) CDP Channel Table Data (rsfsq_confCDPChTableData) - K84 - New Functions: CDP Revision (rsfsq_confCDPRevision) - FSMR - New Functions: Receiver Level Auto Average (rsfsq_confReceiverLevelAutoAverage) Receiver Level Auto Average Data (rsfsq_confReceiverLevelAutoAverageData) Receiver Level VSWR Correction (rsfsq_confReceiverLevelVSWRCorrection) Receiver Level Detector (rsfsq_confReceiverLevelDetector) Receiver Modulation Standard Uncertainty (rsfsq_dataReceiverModulationStandardUncertainty) |
| 3.8.2 | 08/2006 | <p>Removed FSEx compatibility checking, for systems unable to pass a NULL pointer to a function argument (Visual Basic ...)</p> <ul style="list-style-type: none"> - rsfsq_actMarkValue - rsfsq_actMarkDeltaValue <p>Added C# wrapper. Rfsq.cs is installed with VXIPnP driver in the VXIPnP folder ~\WinNT\include</p> |
| 3.8.1 | 07/2006 | <p>For VC only:</p> <ul style="list-style-type: none"> - Removed of 'class' keyword |
| 3.8.0 | 02/2006 | <p>Modifications:</p> <ul style="list-style-type: none"> - Driver update for FSQ Spectrum Analyzer Firmware 3.8x - Driver update for FSMR Firmware 3.85 - Improved synchronization for error checking - new function rsfsq_clearBeforeRead - Added function rsfsq_confGetMarkerPosition - Binary transmission modified. ASCII transfer returned, termination character readout fixed: <ul style="list-style-type: none"> rsfsq_getADemodResultValues rsfsq_dataReadTrace rsfsq_dataWriteTrace rsfsq_dataReadTraceIQ rsfsq_dataReadMemoryIQ rsfsq_dataReadSymbol rsfsq_dataReadTraceWCDP rsfsq_dataReadTraceC2kCDP rsfsq_dataSEMResults rsfsq_dataSEMeasurementResults - List of options: <ul style="list-style-type: none"> - K5 GSM/EDGE (3.80) - K7 FM-Demodulator (3.80) - K8 Bluetooth (3.80) - K9 Power sensor measurements (3.80) - K30 Noise Figure and Gain Measurements (3.80) - K40 Phase Noise Measurements (3.80) - K70 Vector Signal Analysis (3.80) |

FSQ, FSG, FSUP, FSMR driver history

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|----------|------|---|
| | | <ul style="list-style-type: none"> - K72 3GPP FDD Base Station Test (3.80) - K73 3GPP FDD User Equipment Test (3.80) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (3.80) - K77 TD-SCDMA Mobile Station Test (3.80) - K82 cdma2000 Base Station Test (3.80) - K83 cdma2000/1xEV-DV Mobile Station Test (3.80) - K84 1xEV-DO Base Station Test (3.80) - K85 1xEV-DO Mobile Station Test (3.80) - K90 WLAN 802.11a/g Tests (3.80) - K91 WLAN 802.11 Tests (3.80) - K92 WiMAX IEEE 802.16-2004 TX Measurement (3.80) <p>- New functions:</p> <ul style="list-style-type: none"> Conversion Loss Table Catalog (rsfsq_confExtMixLossCatalog) Limit Lines Catalog (rsfsq_confLimitLineCatalog) Transducer Catalog (rsfsq_confTransCatalog) List Power Set Average Type (rsfsq_confListPwrSetAverType) Marker Demodulation Squelch (rsfsq_confSAMMarkDemodSquelch) Channel Power Alternate Channel Spacing (rsfsq_confSAMMarkChPowAltChanSpac) Channel Power Alternate Channel Bandwidth (rsfsq_confSAMMarkChPowAltChanBwid) Channel Power Mode (rsfsq_confSAMMarkChPowMode) Channel Power Alternate Channel Limit (rsfsq_confSAMMarkAltChPowLim) Signal Statistics Scaling Units (rsfsq_confSAMSigStatScalUnits) Tracking Generator Power Sweep (rsfsq_confTrackPowSwe) SE Get Number Of Ranges (rsfsq_confSEGetNumberOfRanges) Trace Results (rsfsq_actTraceResults) Trace Level (rsfsq_actTraceLevel) Get CCDF Statistics (rsfsq_actSAMCCDFStat) ID String Factory (rsfsq_idStringFactory) <p>- Updated functions:</p> <ul style="list-style-type: none"> Emulation (rsfsq_confEmulation) Marker Search N dB (rsfsq_confSAMMarkSearchNdB) Channel Power Channels (rsfsq_confSAMMarkChPowChanChannels) Channel Power Channel Opt (rsfsq_confSAMMarkChPowChanOpt) Channel Power Measurement Limit (rsfsq_confSAMMarkChPowLimExt) Get ACP Limit Check (rsfsq_actSAMACPLimitCheck) <p>- K5</p> <ul style="list-style-type: none"> - New functions: GSM IF/RF Power as IQ Trigger (rsfsq_confGSMIfRfPowIQTrig) <p>- K7</p> <ul style="list-style-type: none"> - New functions: Analog Demod Auto Tune (rsfsq_actAdemodAutoTune) Analog Demodulation Filter Relative (rsfsq_confVSAMDemodFiltRel) <p>- K40</p> <ul style="list-style-type: none"> - New functions: Phase Noise Trace Math State (rsfsq_confPhasNoisTraceMathState) Phase Noise Trace Math Expression (rsfsq_confPhasNoisTraceMathExpres) Phase Noise Marker Zoom (rsfsq_actPhasNoisMarkerZoom) <p>- Updated functions:</p> |

FSQ, FSG, FSUP, FSMR driver history

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|----------|---------|--|
| | | <p>Phase Noise Trace Mode (rsfsq_confPhasNoisTraceMode)</p> <ul style="list-style-type: none"> - K70 - New functions: <ul style="list-style-type: none"> Digital User QAM Modulation (rsfsq_confVSAMDigiUserQamMap) Digital Get User QAM Modulation Level (rsfsq_confGetVSAMDigiUserQamLevel) Get Absolute X Marker Position (rsfsq_getVSAMxMarkPosAbs) - Updated functions: <ul style="list-style-type: none"> Digital Modulation Standards (rsfsq_confVSAMDigiDemod) - K72/73/74 - New functions: <ul style="list-style-type: none"> CDP HSDPA/UPA State (rsfsq_confCDPHsdpaState) WCDP MS Channel E-DPDCH Table Data (rsfsq_confWCDPMSEDPDCHChTableData) WCDP MS Channel E-DPDCH (rsfsq_confWCDPMSChEDPDCH) - Updated functions: <ul style="list-style-type: none"> WCDP Channel Table Data (rsfsq_confWCDPChTableData) - K82 - New functions: <ul style="list-style-type: none"> SEM Peaks Per Range (rsfsq_confSEMPeaksPerRange) SEM Margin (rsfsq_confSEMMargin) Store Spectrum Emission Mask to File (rsfsq_actStoreSEMTToFile) SEM Search Peak (rsfsq_actSEMSearchPeak) SEM Results (rsfsq_dataSEMResults) - K90/91/92 - New functions: <ul style="list-style-type: none"> WLAN Auto Level Time (rsfsq_confWLANAutoLevelTime) WLAN External Trigger Level (rsfsq_confWlanExtTrgLevel) WLAN IQ Input Type (rsfsq_confWLANIQInputType) WLAN PVT Reference Power (rsfsq_confWLANPVTRefPow) WiMAX PVT Burst Selection (rsfsq_confWiMAXPVTBurstSel) WiMAX Demodulation Type (rsfsq_confWiMAXDemodType) WiMAX Marker Burst Constellation Symbol (rsfsq_confWiMAXMarkerBurstConstSymbol) WLAN Burst Recalc (rsfsq_actWLANBurstImm) WLAN Phase/Freq Vs Preamble Select (rsfsq_actWLANPhasFreqVsPreambleSelect) WLAN Load/Store IQ Data (rsfsq_actWlanStoreIQData) Fetch WLAN Burst Count (rsfsq_dataFetchWLANBurstCount) Fetch WLAN Symbol Count (rsfsq_dataFetchWLANSymbolCount) - Updated functions: <ul style="list-style-type: none"> WLAN Measurement Mode (rsfsq_actWLANMeasMode) WLAN IQ Input (rsfsq_confWLANIQInput) |
| 1.8.1 | 11/2005 | - Bug fixed functions: rsfsq_dataFetchNoiseMeasArray |
| 1.8 | 06/2005 | - Driver update for FSQ Spectrum Analyzer Firmware 3.65 - List of updated options: <ul style="list-style-type: none"> - K5 GSM/EDGE (3.60) - K7 FM-Demodulator (3.60) - K9 Power sensor measurements (3.60) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <ul style="list-style-type: none"> - K30 Noise Figure and Gain Measurements (3.60) - K40 Phase Noise Measurements (3.60) - K70 Vector Signal Analysis (3.60) - K72 3GPP FDD Base Station Test (3.60) - K73 3GPP FDD User Equipment Test (3.60) - K74 3GPP HSDPA Base Station Test (3.60) - K76 TD-SCDMA Base Station Test (3.60) - K77 TD-SCDMA Mobile Station Test (3.60) - K82 cdma2000 Base Station Test (3.60) - K83 cdma2000/1xEV-DV Mobile Station Test (3.60) - K84 1xEV-DO Base Station Test (3.60) - K85 1xEV-DO Mobile Station Test (3.60) - K90 WLAN 802.11a/g Tests (3.60) - K91 WLAN 802.11 Tests (3.60) - K92 WiMAX IEEE 802.16-2004 TX Measurement (3.60) <p>- New functions:</p> <ul style="list-style-type: none"> Trace IQ Extended BW Filter (rsfsq_confTraceIQExtBwFilter) External Trigger Level (rsfsq_confExtTrgLevel) FFT Filter Mode (rsfsq_confFFTFilterMode) Harmonic Distortion State (rsfsq_confHarmDistStat) Number Of Harmonics (rsfsq_confHarmDistCount) Harmonic Resolution BW Auto (rsfsq_confHarmDistRbwAuto) Channel Power Separate Channel Spacing (rsfsq_confSAMSeparateChannelSpacing) PWR Meter External Sensor (rsfsq_confPWRMeterExtSensor) Harmonic Distortion Adjust Settings (rsfsq_actHarmDistPreset) Get Harmonic Distortion Result Values (rsfsq_getHarmDistResultValues) Get First Harmonic Frequency (rsfsq_actHarmDistFirstFreq) <p>- Updated functions:</p> <ul style="list-style-type: none"> Trace IQ Set (rsfsq_confTraceIQ) Power Splitter State (rsfsq_confPowerSplitterState) Power Splitter Insertion Loss (rsfsq_confPowerSplitterInsertionLoss) Power Splitter Path Loss (rsfsq_confPowerSplitterPathLoss) Set Status Register (rsfsq_setStatusRegister) Get Status Register (rsfsq_getStatusRegister) Vector Signal Analysis Mode (rsfsq_confVSAMDemodMode) Configure WCDPower Measurement (rsfsq_confWCDPMeas) Gate Settings (rsfsq_confSAMGateSet) <p>Enable VXI-11 rsfsq_init() Changes for VXI-11 rsfsq_close()</p> <p>- Moved to Obsolete functions:</p> <ul style="list-style-type: none"> Channel Power Channel Spacing (confSAMChannelSpacing) <p>- FFT Analyzer Mode added:</p> <ul style="list-style-type: none"> FFT Resolution BW Mode (rsfsq_setFFTResBWMode) FFT Phase Display Ref Value (rsfsq_setFFTPhaseRefVal) FFT Capture State (rsfsq_confFFTCaptureState) FFT Capture Auto (rsfsq_confFFTCaptureAuto) FFT Range (rsfsq_setFFTRange) FFT Range Offset (rsfsq_setFFTRangeOffset) FFT Marker LO Exclude (rsfsq_confFFTMarkLoEx) FFT Phase Lines State (rsfsq_confFFTPLinesState) FFT Phase Lines Position (rsfsq_confFFTPLinesPos) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <p> FFT Units (rsfsq_confFFTUnits) FFT Reference Level (rsfsq_confFFTRefLevel) FFT Reference Level Offset (rsfsq_confFFTRefLevelOffset) FFT Y Scale Division (rsfsq_confFFTYScaleDivision) FFT Display Reference Value (rsfsq_confFFTDisplayReferenceValue) FFT Display Reference Position (rsfsq_confFFTDisplayReferencePosition) FFT Window Function (rsfsq_setFFTWindowFunc) FFT Input IQ Type (rsfsq_setFFTInIQType) FFT Low Pass Input (rsfsq_confFFTLowPassInput) FFT Dither Input (rsfsq_confFFTDitherInput) FFT Analyzer Mode (rsfsq_actFFTMode) FFT Analyzer Mode Preset (rsfsq_actFFTModePreset) FFT Calculate Capture (rsfsq_actFFTCalcCapture) FFT Meas Result (rsfsq_confFFTMeasResult) FFT Calibration Signal Path (rsfsq_actFFTCalSigPath) FFT Calibration Signal Source (rsfsq_actFFTCalSigSource) FFT Scale Auto (rsfsq_actFFTScaleAuto) </p> <p>- Option FS-K40 (Phase Noise Measurements)</p> <p>- New functions:</p> <p> Phase Noise Scale (rsfsq_confPhasNoisScale) Phase Noise Autoscale Y (rsfsq_confPhasNoisAutoscaleY) Phase Noise Center Freq (rsfsq_confPhasNoisCenterFreq) Phase Noise Start And Stop Freq (rsfsq_confPhasNoisStartStopFreq) Phase Noise Resolution BW Type (rsfsq_confPhasNoisResBwType) Phase Noise Resolution BW Ratio (rsfsq_confPhasNoisResBwRatio) Phase Noise Ref Level (rsfsq_confPhasNoisRefLevel) Phase Noise Ref Level Offset (rsfsq_confPhasNoisRefLevelOffset) Phase Noise Auto Level (rsfsq_confPhasNoisAutoLevel) Phase Noise Signal Level (RF) (rsfsq_confPhasNoisSignalLevelRF) Phase Noise Sweep (rsfsq_confPhasNoisSweep) Phase Noise Sweep Count (rsfsq_confPhasNoisSweepCount) Phase Noise Sweep Direction (rsfsq_confPhasNoisSweepDirect) Phase Noise Sweep Display (rsfsq_confPhasNoisSweepDisplay) Phase Noise Sweep Mode (rsfsq_confPhasNoisSweepMode) Phase Noise Sub Channel RBW (rsfsq_confPhasNoisSubChanResBw) Phase Noise Sub Channel RBW Type (rsfsq_confPhasNoisSubChanResBwType) Phase Noise Sub Channel Sweep Count (rsfsq_confPhasNoisSubChanSweepCount) Phase Noise Verification State (rsfsq_confPhasNoisVerifState) Phase Noise Frequency Tolerance (rsfsq_confPhasNoisFreqTol) Phase Noise Power Tolerance (rsfsq_confPhasNoisPowerTol) Evaluation Range State (rsfsq_confPhasNoiseEvalRangeState) Evaluation Range Frequency (rsfsq_confPhasNoiseEvalRangeFreq) Phase Noise Limit Lines State (rsfsq_confPhasNoisLimitLineState) Phase Noise Limit Lines Operation (rsfsq_confPhasNoiseLimitLineOper) Phase Noise Limit Lines Data (rsfsq_confPhasNoisLimitLineData) Phase Noise Limit Lines Switch (rsfsq_confPhasNoisLimitLineSwitch) Phase Noise Limit Lines Shift (rsfsq_confPhasNoisLimitLineShift) Phase Noise Limit Lines Trace (rsfsq_confPhasNoiseLimitLineTrace) Phase Noise Marker State (rsfsq_confPhasNoisMarkState) Phase Noise Marker Position (x) (rsfsq_confPhasNoisMarkPosX) Phase Noise Marker Position (y) (rsfsq_confPhasNoisMarkPosY) Phase Noise Marker to Trace (rsfsq_confPhasNoisMarkTrace) Phase Noise Marker All Off (rsfsq_confPhasNoisMarkerAllOff) Phase Noise Delta Marker State (rsfsq_confPhasNoisDeltaMarkState) Phase Noise Delta Marker Position (x) (rsfsq_confPhasNoisDeltaMarkPosX) </p> |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <p>Phase Noise Delta Marker Position (y) (rsfsq_confPhasNoisDeltaMarkPosY) Phase Noise Delta Marker to Trace (rsfsq_confPhasNoisDeltaMarkTrace) Phase Noise Delta Marker All Off (rsfsq_confPhasNoisDeltaMarkerAllOff) Phase Noise Spot Noise State (rsfsq_confPhasNoisSpotNoiseState) Phase Noise Spot Noise Position (x) (rsfsq_confPhasNoisSpotNoisePosX) Phase Noise Spot Noise All Off (rsfsq_confPhasNoisSpotNoiseAllOff) Phase Noise Trace State (rsfsq_confPhasNoisTraceState) Phase Noise Trace Mode (rsfsq_confPhasNoisTraceMode) Phase Noise Smoothing State (rsfsq_confPhasNoisSmoothState) Phase Noise Smoothing Aperture (rsfsq_confPhasNoisSmoothAper) Phase Noise Mode (rsfsq_actPhasNoisMode) Phase Noise Scale Auto Adjust (rsfsq_actPhasNoisScaleAutoAdj) Phase Noise Start Measurement (rsfsq_actPhasNoisStartMeasurement) Phase Noise Start Measurement And Wait for OPC (rsfsq_actPhasNoisStartMeasurementWopc) Phase Noise Stop Measurement (rsfsq_actPhasNoisStopMeasurement) Get Phase Noise Measurement Time (rsfsq_actPhasNoisMeasTime) Phase Noise Limit Check Result (rsfsq_actPhasNoisLimitCheckResult) Phase Noise Limit Check Result Clear (rsfsq_actPhasNoisLimitCheckClear) Get Phase Noise Spot Noise Position (y) (rsfsq_confPhasNoisSpotNoisPosY) Fetch Phase Noise Result (rsfsq_dataFetchPhasNoisResult)</p> <p>- Option FSQ-K92 (WiMAX) - New functions: WLAN Sweep (rsfsq_confWLANSweep) WiMAX Standard (rsfsq_confWiMAXStandard) WiMAX Frequency Band (rsfsq_confWiMAXFreqBand) WiMAX BW (rsfsq_confWiMAXBW) WiMAX Center Freqeuncy (rsfsq_confWiMAXCenterFrequency) WiMAX Inverse Guard Ratio (rsfsq_confWiMAXInvGuardRatio) WiMAX Link Mode (rsfsq_confWiMAXLinkMode) WiMAX Channel BW (rsfsq_confWiMAXChannBw) WiMAX Adj Channel Spacing (rsfsq_confWiMAXAdjChannSpacing) WiMAX Adj Channel Number (rsfsq_confWiMAXAdjChannNumber) WiMAX Adj Channel BW (rsfsq_confWiMAXAdjChannBw) WiMAX EVM Table Units (rsfsq_confWiMAXEVMTTableUnits) WiMAX Burst Type (rsfsq_confWiMAXBurstType) WiMAX Demodulator (rsfsq_confWiMAXDemodulator) WiMAX All Limits (rsfsq_confWiMAXAllLimit) WiMAX Subscriber Station Timing (rsfsq_confWiMAXLimitSStatTiming) WiMAX Trace IQ Sample Rate (rsfsq_confWiMAXTraceIQSampRat) WiMAX Display Table Unit (rsfsq_confWiMAXDisplayTableUnit) WLAN Start Measurement (rsfsq_actWLANStartMeasurement) WLAN Start Measurement And Wait for OPC (rsfsq_actWLANStartMeasurementWopc) WiMAX Mode (rsfsq_actWiMAXMode) WiMAX Spectrum Flatness Select (rsfsq_actWiMAXSpectrumFlatnessSelect) WiMAX Phase/Freq Vs Preamble Select (rsfsq_actWiMAXPhasFreqVsPreambleSelect) WiMAX ACP Measurement Mode Select (rsfsq_actWiMAXACPMeasModeSelect) WiMax Get Channel Power Max (rsfsq_actWiMAXGetChannelPowerMax) WiMAX All Limits Results (rsfsq_confWiMAXAllLimitResults) WiMAX Subscriber Station Timing Result (rsfsq_actWiMAXLimitSStatTimingResult) WiMAX Limit Check Result (rsfsq_actWiMAXLimitCheckResults) Fetch WLAN Burst All (rsfsq_dataFetchWLANBurstAll) Fetch WiMAX CINR Results (rsfsq_dataFetchWiMAXCinrResults) Fetch WiMAX RSSI Results (rsfsq_dataFetchWiMAXRssiResults)</p> |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <p>Fetch WiMAX Burst Subscriber Station Timing (rsfsq_dataFetchWiMAXSubscStatTiming)</p> <p>- Updated functions:</p> <p>Set Active Window (rsfsq_confSetActiveWindow) WLAN Channel No (rsfsq_confWLANChannelNo) WLAN Auto Level (rsfsq_confWLANAutoLevel) WLAN Autoscale Y (rsfsq_confWLANAutoscaleY) WLAN Ref Level (rsfsq_confWLANRefLevel) WLAN Y Scale Division (rsfsq_confWLANYScaleDivision) WLAN RF Attenuation (rsfsq_confWLANRFAttenuation) WLAN Input Electronic Attn (rsfsq_confWLANInEAtt) WLAN Input Electronic Attn Auto (rsfsq_confWLANInEAttAuto) WLAN Input Electronic Attn State (rsfsq_confWLANInEAttState) WLAN Input YIG Filter (rsfsq_confWLANInputYIGFilter) WLAN External Attenuation (rsfsq_confWLANExtAtt) WLAN Signal Level (RF) (rsfsq_confWLANSignalLevelRF) WLAN Signal Level (Baseband) (rsfsq_confWLANSignalLevelBaseband) WLAN Sweep Count (rsfsq_confWLANsweepCount) WLAN ACP Mode (rsfsq_confWLANACPMode) WLAN Capture Time (rsfsq_confWLANCaptureTime) WLAN Overall Burst Count (rsfsq_confWLANOverallBurstCount) WLAN Trigger Mode (rsfsq_confWLANTriggerMode) WLAN Trigger Offset (rsfsq_confWLANTriggerOffset) WLAN Trigger Level (rsfsq_confWLANTriggerLevel) WLAN Swap IQ (rsfsq_confWLANSwapIQ) WLAN Baseband Input (rsfsq_confWLANBasebandInput) WLAN IQ Input (rsfsq_confWLANIQInput) WLAN Balanced Input (rsfsq_confWLANBalancedInput) WLAN Low Pass Input (rsfsq_confWLANLowPassInput) WLAN Dither Input (rsfsq_confWLANDitherInput) WLAN Preamble Error Units (rsfsq_confWLANPreambleErrorUnits) WLAN EVM Units (rsfsq_confWLANEVMUnits) WLAN Signal Symbol Field (rsfsq_confWLANSignalSymbolField) WLAN Signal Symbol Field Modulation Scheme (rsfsq_confWLANSignalSymbolFieldModulationScheme) WLAN PVT Equal Burst Length (rsfsq_confWLANPVTEqualBurstLength) WLAN PVT Min (Max) No of Data Symbols (rsfsq_confWLANPVTMinMaxNoDataSymbols) WLAN Channel Estimation in Preamble and Payload (rsfsq_confWLANChanEstPreambPayl) WLAN Tracking Phase (rsfsq_confWLANTrackingPhase) WLAN Tracking Timing (rsfsq_confWLANTrackingTiming) WLAN Tracking Level (rsfsq_confWLANTrackingLevel) WLAN Gating (rsfsq_confWLANGating) WLAN Gate Delay (rsfsq_confWLANGateDelay) WLAN Gate Length (rsfsq_confWLANGateLength) WLAN Gate Link (rsfsq_confWLANGateLink) WLAN Marker State (rsfsq_confWLANMarkerState) WLAN Marker All Off (rsfsq_confWLANMarkerAllOff) WLAN Marker to Trace (rsfsq_confWLANMarkerTrace) WLAN Marker Position (x) (rsfsq_confWLANMarkerPositionx) WLAN Marker Carrier (rsfsq_confWLANMarkerCarrier) WLAN Marker Symbol (rsfsq_confWLANMarkerSymbol) WLAN Frequency Error (rsfsq_confWLANLimitFerr) WLAN Symbol Error (rsfsq_confWLANLimitSymbolErr) WLAN EVM (rsfsq_confWLANLimitEVM) WLAN Display Table (rsfsq_confWLANDisplayTable)</p> |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|---|
| | | <p>WLAN Measurement Mode (rsfsq_actWLANMeasMode) WLAN Constellation Carrier Select (rsfsq_actWLANConstellationCarrierSelect) WLAN Power Versus Time Select (rsfsq_actWLANPVTSelect) WLAN Spectrum Mask Select (rsfsq_actWLANspectrumMaskSelect) WLAN Marker Search (rsfsq_actWLANMarkerSearch) WLAN Marker Zoom (rsfsq_actWLANMarkerZoom) WLAN Get Channel Power (rsfsq_actWLANGetChannelPower) WLAN Get Marker Position (x) (rsfsq_confWLANGetMarkerPositionx) WLAN Get Marker Position (y) (rsfsq_confWLANGetMarkerPositiony) WLAN Frequency Error Result (rsfsq_actWLANLimitFerrResult) WLAN Symbol Error Result (rsfsq_actWLANLimitSymbolErrResult) WLAN EVM Result (rsfsq_actWLANLimitEVMResult) WLAN Spectrum Mask Limit (rsfsq_actWLANspectrumMaskLimit) Read WLAN Trace Data (rsfsq_dataReadTraceWLAN) Fetch WLAN Burst RMS Power (rsfsq_dataFetchWLANRMSAIPower) Fetch WLAN Burst Crest Factor (rsfsq_dataFetchWLANAIIICrestFactor) Fetch WLAN Frequency Error (rsfsq_dataFetchWLANFreqError) Fetch WLAN Symbol Error (rsfsq_dataFetchWLANSymbolError) Fetch WLAN IQ Offset Error (rsfsq_dataFetchWLANIQOffset) Fetch WLAN IQ Imbalance Error (rsfsq_dataFetchWLANIQImbalance) Fetch WLAN Quadrature Offset Error (rsfsq_dataFetchWLANQuadOffset) Fetch WLAN EVM Results (rsfsq_dataFetchWLANEVMResults)</p> <p>- New features: - non exportable function rsfsq_checkInstrVer was added. instrument version checking implemented in many functions, error code</p> <p>RSFSQ_ERROR_INSTR_VER_ERROR added</p> |
| 1.7 | 04/2005 | <p>- Driver update for FSQ Spectrum Analyzer Firmware 3.55 - Driver update for FSMR Measuring Receiver series instruments</p> <p>- List of options: - K5 GSM/EDGE (3.50) - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.50) - K70 Vector Signal Analysis (3.50) - K72 3GPP FDD Base Station Test (3.50) - K73 3GPP FDD User Equipment Test (3.50) - K74 3GPP HSDPA Base Station Test (3.50) - K76 TD-SCDMA Base Station Test (3.50) - K77 TD-SCDMA Mobile Station Test (3.50) - K82 cdma2000 Base Station Test (3.50) - K83 cdma2000/1xEV-DV Mobile Station Test (3.50) - K84 1xEV-DO Base Station Test (3.50) - K85 1xEV-DO Mobile Station Test (3.50) - K90 WLAN 802.11a/g Tests (3.50) - K91 WLAN 802.11 Tests (3.50)</p> <p>- New option: - B72 Bandwidth Extension - Driver update for FSMR Measuring Receiver series instruments</p> <p>New functions: - Sweep Group Sweep Time Auto (rsfsq_confSweepTimeAuto) - Power Meter PWR Meter Type (rsfsq_confPWRMeterType)</p> |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <p>PWR Meter Address (rsfsq_confPWRMeterAddress) PWR Meter Sensor Cal Factor (rsfsq_confPWRMeterSensorCalFactor) PWR Meter Sensor Label (rsfsq_confPWRMeterSensorLabel) PWR Meter Sensor Select (rsfsq_confPWRMeterSensorSelect)</p> <p>- Power Splitter Power Splitter State (rsfsq_confPowerSplitterState) Power Splitter Insertion Loss (rsfsq_confPowerSplitterInsertionLoss) Power Splitter Path Loss (rsfsq_confPowerSplitterPathLoss)</p> <p>- Receiver Frequency and Span Settings Receiver Frequency (rsfsq_confReceiverFrequency) Receiver Frequency Step Size (rsfsq_confReceiverFrequencyStepSize) Receiver Frequency Span (rsfsq_confReceiverFrequencySpan) Receiver Frequency Full Span (rsfsq_confReceiverFrequencyFullSpan) Receiver AF Center (rsfsq_confReceiverAFCenter) Receiver AF Start (rsfsq_confReceiverAFStart) Receiver AF Stop (rsfsq_confReceiverAFStop) Receiver AF Span (rsfsq_confReceiverAFSpan) Receiver AF Full Span (rsfsq_confReceiverAFFullSpan) Receiver Auto Signal Search (rsfsq_confReceiverAutoSignalSearch)</p> <p>- Receiver Amplitude Settings Receiver Input (rsfsq_confReceiverInput) Receiver Ref Level (rsfsq_confReceiverRefLevel) Receiver Mixer Level Auto (rsfsq_confReceiverMixerLevelAuto) Receiver Mixer Level Manual (rsfsq_confReceiverMixerLevelManual) Receiver RF Input Protection (rsfsq_confReceiverRFInputProtection) Receiver RF Input Preamp Auto(rsfsq_confReceiverRFInputPreampAuto) Receiver RF Input Attenuation (rsfsq_confReceiverRFInputAttenuation) Receiver RF Input Attenuation Auto(rsfsq_confReceiverRFInputAttenuationAuto) Receiver RF Input Coupling (rsfsq_confReceiverRFInputCoupling) Receiver Input Impedance (rsfsq_confReceiverInputImpedance) Receiver AF Input Coupling (rsfsq_confReceiverAFInputCoupling) Receiver Display Scale Per Div (rsfsq_confReceiverDisplayScalePerDiv) Receiver Display Reference Position(rsfsq_confReceiverDisplayReferencePosition) Receiver Display Reference Value (rsfsq_confReceiverDisplayReferenceValue) Receiver Display Spacing (rsfsq_confReceiverDisplaySpacing) Receiver Display Phase Wrap (rsfsq_confReceiverDisplayPhaseWrap) Receiver Unit PM (rsfsq_confReceiverUnitPM) Receiver Unit THD SINAD (rsfsq_confReceiverUnitTHD_SINAD) Receiver Unit Relative (rsfsq_confReceiverUnitRelative) Receiver Zero Phase Ref Position (rsfsq_confReceiverZeroPhaseRefPosition) Receiver Power Reference Output (rsfsq_confReceiverPowerReferenceOutput)</p> <p>- Setting the Bandwidths Receiver Demod BW Auto (rsfsq_confReceiverDemodBWAuto) Receiver Demod BW Manual (rsfsq_confReceiverDemodBWManual) Receiver IF BW Auto (rsfsq_confReceiverIFBWAuto) Receiver IF BW Manual (rsfsq_confReceiverIFBWManual) Receiver Resolution BW Manual (rsfsq_confReceiverResolutionBWManual)</p> <p>- Selective Level Measurement Receiver Selective Level Measurement Mode (rsfsq_confReceiverSelectiveLevelMeasurementMode) Receiver Calibration Abs Power (rsfsq_confReceiverCalibrationAbsPower) Receiver Expand Calibrated Range(rsfsq_confReceiverExpandCalibratedRange) Receiver Adjust Input Range (rsfsq_confReceiverAdjustInputRange) Receiver Demodulation Bandwidth (rsfsq_confReceiverDemodulationBandwidth) Receiver Relative Level Measurement (rsfsq_confReceiverRelativeLevelMeasurement) Receiver Measured Level To Reference</p> |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> (rsfsq_confReceiverMeasuredLevelToReference) Receiver Relative Level Reference (rsfsq_confReceiverRelativeLevelReference) Receiver Level Measurement Averaging (rsfsq_confReceiverLevelMeasurementAveraging) - AF Filters Receiver AF Filter (rsfsq_confReceiverAFFilter) Receiver Deemphasis AF Filter (rsfsq_confReceiverDeemphasisAFFilter) Receiver Weighting AF Filter (rsfsq_confReceiverWeightingAFFilter) - Modulation Measurement Receiver Modulation Measurement Mode (rsfsq_confReceiverModulationMeasurementMode) Receiver Modulation Type (rsfsq_confReceiverModulationType) Receiver Detector Type (rsfsq_confReceiverDetectorType) Receiver Modulation Meas To Ref (rsfsq_confReceiverModulationMeasToRef) Receiver Peak Hold (rsfsq_confReceiverPeakHold) Receiver Averaging (rsfsq_confReceiverAveraging) Receiver Modulation Result Display (rsfsq_confReceiverModulationResultDisplay) Receiver Relative Measurement (rsfsq_confReceiverRelativeMeasurement) Receiver Relative Measurement Ref (rsfsq_confReceiverRelativeMeasurementRef) Receiver Relative Measurement Ref Query (rsfsq_confReceiverRelativeMeasurementRefQuery) - Audio Input Measurement Receiver Audio Input Level (rsfsq_confReceiverAudioInputLevel) Receiver Audio Input Result Display (rsfsq_confReceiverAudioInputResultDisplay) Receiver Audio Input Result Display Mode (rsfsq_confReceiverAudioInputResultDisplayMode) Receiver Audio Input Meas To Ref (rsfsq_confReceiverAudioInputMeasToRef) - Trigger Group Continue Measurement (rsfsq_actContinueMeasurement) - Measuring Receiver (FSMR) Measurement Receiver Mode (rsfsq_actMeasurementReceiverMode) - Modulation Measurement (FSMR) Receiver Modulation Measurement Results (rsfsq_dataReceiverModulationMeasurementResults) Receiver Modulation Averaged Measurement Results (rsfsq_dataReceiverModulationAveragedMeasurementResults) Receiver Modulation Peak Hold Measurement Results (rsfsq_dataReceiverModulationPeakHoldMeasurementResults) Receiver Modulation Audio Frequency Result (rsfsq_dataReceiverModulationAudioFrequencyResult) Receiver Modulation Frequency Error Result (rsfsq_dataReceiverModulationFrequencyErrorResult) Receiver Modulation Carrier Power Result (rsfsq_dataReceiverModulationCarrierPowerResult) Receiver Modulation SINAD Measurement Results (rsfsq_dataReceiverModulationSINADMeasurementResults) Receiver Modulation THD Measurement Results (rsfsq_dataReceiverModulationTHDMeasurementResults) - Receiver Memory Receiver Correction Catalog (rsfsq_confReceiverCorrectionCatalog) Receiver Correction (rsfsq_confReceiverCorrection) - Bug fixed functions: rsfsq_confNoiseENRTable rsfsq_confNoise2ndStageCorrectionState rsfsq_confNoiseTraceSettings rsfsq_confNoiseGainTraceSettings - New functions: |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | rsfsq_confFileDecSep rsfsq_actSAMStoreSEToFile rsfsq_confTraceIQBwExtension rsfsq_confTransducerFactor rsfsq_confTrackExtSrcRef rsfsq_confVSAMDemodFilter rsfsq_confGSMBurstZoomTransitionNumber rsfsq_confGSMMultiCarrierModeState rsfsq_confCDPRrcFilter rsfsq_confCDPEliminateTailChips rsfsq_confCDPSlotDifference rsfsq_confCDPLCodeMode rsfsq_confCDPCConstellationParameterB rsfsq_confWCDPMSCChHSDPCCH rsfsq_confWLANRefLevel rsfsq_confWLANRFAttenuation rsfsq_confWLANInEAtt rsfsq_confWLANInEAttAuto rsfsq_confWLANInEAttState rsfsq_confWLANInputYIGFilter rsfsq_confWLANPreambleErrorUnits rsfsq_confWLANBurstDuration rsfsq_confWLANQueryFilterCatalog rsfsq_confWLANSelectFilter rsfsq_confWLANMarkerBurstSymbol rsfsq_confSEResolutionBW rsfsq_confSEVideoBW rsfsq_confSEBreakSweep rsfsq_confSEDetector rsfsq_confSEFilter rsfsq_confSEStartStopFrq rsfsq_confSEAtt rsfsq_confSEAttAuto rsfsq_confSEPreamplifier rsfsq_confSESweepPoints rsfsq_confSERefLevel rsfsq_confSESweepMode rsfsq_confSESweepTime rsfsq_confSESweepTimeAuto rsfsq_confSETransducer rsfsq_confSEDeleteRange rsfsq_confSESearchPeaks rsfsq_actSAMStoreTraceToFile rsfsq_actFileCatPath rsfsq_actWLANAutoAdj rsfsq_actWLANMarkerSearch rsfsq_dataSEMeasurementResults - Updated functions: rsfsq_confWCDPMeas rsfsq_confWCDPMeasMode rsfsq_confCDPLCode rsfsq_confCDPPControl rsfsq_confWCDPChTable rsfsq_confWCDPChTableFile rsfsq_confWCDPChTableName rsfsq_confWCDPChTableCopy rsfsq_confWCDPChTableDelete |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> rsfsq_confWCDPChTableComment rsfsq_confWCDPChTableData rsfsq_confWCDPChTableCatalog rsfsq_confWLANBurstType rsfsq_confWLANDemodulator rsfsq_actGSMBurstSection rsfsq_actSEMLimitLineCheck rsfsq_dataReadTraceIQ rsfsq_ConditionSyncRegister rsfsq_confReferenceOsc - Bug fixed functions ('\n' symbol was added to the command): rsfsq_confWLANLimitEVMAIICarriers rsfsq_confWLANLimitEVMDDataCarriers rsfsq_confWLANLimitEVMPilotCarriers rsfsq_confWLANLimitIQOffsetError rsfsq_confWLANLimitFerr rsfsq_confWLANLimitSymbolErr rsfsq_confWLANLimitRiseTime rsfsq_confWLANLimitFallTime rsfsq_confWLANLimitEVM - External Mixer (new functions) External Mixer (rsfsq_confExtMix) External Mixer LO Level (rsfsq_confExtMixerLOLevel) External Mixer Signal (rsfsq_confExtMixSignal) External Mixer Parameters (rsfsq_confExtMixParameters) Default Conversion Loss (rsfsq_confDefConvLoss) Conversion Loss Table (rsfsq_confExtMixLossTab) Conversion Loss Table Delete (rsfsq_confExtMixLossTabDelete) - Code maintenance: - I/O conversion specification fixed: Input: "%le" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean Output: "%.12f" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean - System locale are set to default "C" - Renamed functions (old prototypes are moved to compatibility group): Channel Power Trigger Spacing (rsfsq_confSAMTrigSpacing) changed to Channel Power Channel Spacing (rsfsq_confSAMChannelSpacing) Channel Power Trigger Count (rsfsq_confSAMTrigCount) changed to Channel Power Carrier Count (rsfsq_confSAMCarrierCount) - Description of Channel Power Type parameter changed, code improved Channel Power Meas Mode (rsfsq_confSAMMarkChPowMeas) Adjust Channel Power Settings (rsfsq_actSAMCPSet) Get Channel Power Value (rsfsq_actSAMMarkPowerValueExt) Get Occupied Bandwidth Value (rsfsq_actSAMMarkPowerBandValue) - Parameter range extended, description changed Channel Power Reference Manual (rsfsq_confSAMReferenceMan) Resolution BW (rsfsq_confResbw) Sweep Points (rsfsq_confSweepPoints) - Trace IQ Group moved in the FP to Trace Group - Fixed code (description) Channel Power Standard (rsfsq_confSAMMarkChPowChanStandard) Channel Power Auto Adjust Result (rsfsq_actSAMChannelPowerAutoAdjustResult) Channel Power Auto Adjust Result (rsfsq_actSAMChannelPowerAutorangeResult) Get Peaks Values (rsfsq_getPeaksValues) Get Sync Pattern Found (rsfsq_getVSAMDigiSyncPatternFound) Read WLAN Trace Data (rsfsq_dataReadTraceWLAN) Read C2k CDP Trace Data (rsfsq_dataReadTraceC2kCDP) Read Burst Values (rsfsq_dataReadBurst) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|---|
| | | <ul style="list-style-type: none"> - New additional functions SE Start Measurement (rsfsq_actSEStartMeasurement) SE Start Measurement And Wait for OPC (rsfsq_actSEStartMeasurementWopc) SE Stop Measurement (rsfsq_ |
| 1.6.1 | 03/2005 | <p>Modifications</p> <ul style="list-style-type: none"> - Updated functions: <ul style="list-style-type: none"> rsfsq_confCDPAveraging - New functions: <ul style="list-style-type: none"> rsfsq_confCDPSlotSetsCount rsfsq_actCDPSlotSetToAnalyze rsfsq_actSAMChannelPowerStartSlot rsfsq_actSAMChannelPowerStopSlot rsfsq_actSAMChannelPowerAutorange rsfsq_actSAMChannelPowerAutorangeResult rsfsq_actSAMChannelPowerAutoAdjust rsfsq_actSAMChannelPowerAutoAdjustResult |
| 1.6 | 09/2004 | <p>Modifications</p> <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> rsfsq_actHCopyToFile rsfsq_ConditionFrequencyRegister rsfsq_ConditionLimitRegister rsfsq_ConditionLimitMargin Register rsfsq_ConditionACPLimitRegister rsfsq_ConditionPowerRegister rsfsq_ConditionSyncRegister - Fixed functions: <ul style="list-style-type: none"> rsfsq_confNoiseGainTraceSettings rsfsq_confNoiseTraceSettings rsfsq_confListPwrState rsfsq_confNoiseLossInputSettings rsfsq_confNoiseLossOutputSettings rsfsq_confNoiseRefLevel rsfsq_confSAMMarkChPowMeas rsfsq_setStatusRegister |
| 1.5 | 07/2004 | <p>Modifications</p> <p>Driver update for FSQ-K91</p> <ul style="list-style-type: none"> - Updated Functions: <ul style="list-style-type: none"> rsfsq_confWLANEqualBurstLength rsfsq_confWLANNoDataSymbols rsfsq_confWLANMinMaxNoDataSymbols rsfsq_actWLANMeasMode - New Functions: <ul style="list-style-type: none"> rsfsq_confWLANBurstAveragingLength rsfsq_confWLANAutoscaleY rsfsq_confWLANYScaleDivision rsfsq_confWLANsweepCount rsfsq_confWLANACPMODE rsfsq_confWLANEVMUnits rsfsq_confWLANGimbUnits rsfsq_confWLANSignalSymbolFieldModulationScheme rsfsq_confWLANBitRate rsfsq_confWLANPVTEqualBurstLength rsfsq_confWLANPVTMinMaxNoDataSymbols rsfsq_confWLANGateLink rsfsq_confWLANLimitEVMAIICarriers rsfsq_confWLANLimitEVMDDataCarriers rsfsq_confWLANLimitEVMPilotCarriers |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|---|
| | | rsfsq_confWLANLimitIQOffsetError rsfsq_confWLANLimitFerr rsfsq_confWLANLimitSymbolErr rsfsq_confWLANLimitRiseTime rsfsq_confWLANLimitFallTime rsfsq_confWLANLimitEVM rsfsq_actWLANLimitEVMAIICarriersResult rsfsq_actWLANLimitEVMDDataCarriersResult rsfsq_actWLANLimitEVMPilotCarriersResult rsfsq_actWLANLimitIQOffsetErrorResult rsfsq_actWLANLimitFerrResult rsfsq_actWLANLimitSymbolErrResult rsfsq_actWLANLimitRiseTimeResult rsfsq_actWLANLimitFallTimeResult rsfsq_actWLANLimitEVMResult rsfsq_actWLANACPChannelLimit rsfsq_actWLANLimitACPChannelResult rsfsq_actWLANspectrumMaskLimit rsfsq_dataFetchWLANRMSAllPower rsfsq_dataFetchWLANAllCrestFactor rsfsq_dataFetchWLANRiseTime rsfsq_dataFetchWLANFallTime |
| 1.4 | 04/2004 | <p>Modifications Driver update for FSQ Spectrum Analyzer Firmware 2.35/3.35</p> <p>List of updated options</p> <ul style="list-style-type: none"> -K5 GSM/EDGE (2.30/3.30) -K70 Vector Signal Analysis (2.30/3.30) -K72 3GPP FDD Base Station Test (2.35/3.35) -K73 3GPP FDD User Equipment Test (2.35/3.35) -K82 cdma2000 Base Station Test (2.30/3.30) -K90 WLAN 802.11a TX Tests (2.30/3.30) <p>List of new options</p> <ul style="list-style-type: none"> -K9 Power sensor measurements -K30 Noise Figure and Gain Measurements (2.30/3.30) -K74 3GPP HSDPA Base Station Test (2.35/3.35) -K76 TD-SCDMA Base Station Test (2.30/3.30) -K77 TD-SCDMA Mobile Station Test (2.30/3.30) -K83 cdma2000/1xEV-DV Mobile Station Test (2.30/3.30) -K84 1xEV-DO Base Station Test (2.30/3.30) -K85 1xEV-DO Mobile Station Test (2.30/3.30) <p>--- General Issues ---</p> <ul style="list-style-type: none"> - Status checking added to the functions where it was missing (rsfsq_sysStatus) - Problem with precision of values fixed (loss of digits) <ul style="list-style-type: none"> Formating functions uses for double values "%Lf" Scanning funcions uses for double values "%Le" <p>--- Updated functions (Base + Misc) ---</p> <ul style="list-style-type: none"> - Channel Power Trigger Count (rsfsq_confSAMTrigCount) <ul style="list-style-type: none"> value range extended - Channel Power Standard (rsfsq_confSAMMarkChPowChanStandard) <ul style="list-style-type: none"> new WLAN standards added - Coupling Settings (rsfsq_confCoupExt) <ul style="list-style-type: none"> Filter Type range extended - Analog Demodulation Type (rsfsq_confVSAMADemodType) <ul style="list-style-type: none"> PM modulation added |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> - Get Analog Demod Value (rsfsq_actVSAMMarkerADemod) AM and PM modulation added - Signal Statistics (rsfsq_confSAMSigStat) added additional parameter's items - Get N dB Down Marker Value (rsfsq_actSAMMarkNdBDValue) Also available in zero span mode - Emulation (rsfsq_confEmulation) parameter values added - Analog Demodulation Demod BW (rsfsq_confVSAMDemodBW) parameter values added - Analog Demodulation BW (rsfsq_setADEMBandwidth) parameter values added - Analog Demod RF Param (rsfsq_confVSAMADemodRFPParam) parameter values added - Limit Lines State (rsfsq_confLimitLineState) added 'comment' parameter value - Limit Lines Parameters (rsfsq_confLimitLineParamExt) moved to obsolete functions - Set Limit Lines Offset (rsfsq_actSetLimitLinesOffset) moved to obsolete functions - Marker Opt (rsfsq_confMarkOpt) fixed control description <p>--- New functions (Base + Misc) ---</p> <ul style="list-style-type: none"> - Trigger Delay Compensation (rsfsq_confTrgDelayComp) - Get Sweep Count (rsfsq_getSweepCount) - Frequency Axis Mode (rsfsq_confFreqAxisMode) - Setup Transducer Ref Level Adj (rsfsq_confTransducerRefLevAdj) - Analog Demod Zero Phase Ref Point (rsfsq_confVSAMADemodZeroPhase) - Analog Demod Phase Wrap (rsfsq_confVSAMADemodPhaseWrap) - Analog Demod PM Units (rsfsq_confVSAMADemodPMUnits) - Limit Lines Data (rsfsq_confLimitLineData) - Limit Lines Shift (rsfsq_confLimitLineShift) - Limit Lines Switch (rsfsq_confLimitLineSwitch) - Limit Lines Trace (rsfsq_confLimitLineTrace) - Limit Lines Mode (rsfsq_confLimitLineMode) - Limit Lines Units (rsfsq_confLimitLineUnits) - Limit Lines Domain (rsfsq_confLimitLineDomain) - Limit Lines Offset (rsfsq_confLimitLineOffset) - Limit Lines Margin (rsfsq_confLimitLineMargin) - Limit Lines Threshold (rsfsq_confLimitLineThreshold) - Limit Check Result Clear (rsfsq_actLimitCheckClear) - Limit Lines Measurement Type (rsfsq_confLimitLineMeasType) <p>--- Renamed (thus new) functions (obsolete group) ---</p> <ul style="list-style-type: none"> - CDP Slot (rsfsq_confCDPSlot) formerly known as CDP CPICH Slot option added - CDP PN Offset (rsfsq_confCDPPNOffset) formerly known as CDP C2k PN Offset (rsfsq_confC2kCDPPNOffset) created alias, option added - CDP IQ Length (rsfsq_confCDPIQLength) formerly known as CDP C2k IQ Length (rsfsq_confC2kCDPIQLength) created alias, option added - CDP Order (rsfsq_confCDPOrder) formerly known as CDP C2k Order (rsfsq_confC2kCDPOrder) created alias, option added |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> - CDP Timing And Phase Offset (rsfsq_confCDPTPM) formerly known as CDP C2k Timing And Phase Offs (rsfsq_confC2kCDPTPM) created alias, option added --- Updated functions (K5) --- - MS Set Channel (rsfsq_actMSChannel) description changed --- New functions (K5) --- - GSM Sync Search (rsfsq_confGSMSyncSearch) - GSM Burst Search (rsfsq_confGSMBurstSearch) - GSM Burst Search Threshold (rsfsq_confGSMBurstSearchThreshold) - GSM Burst Time Meas High Resolution (rsfsq_confGSMBurstTimeMeasHighResolution) - GSM Burst Meas Filter (rsfsq_confGSMBurstMeasFilter) - GSM Trigger Free Run (rsfsq_actGSMTriggerFreeRun) - Read Multi Frame Data (rsfsq_readMultiFrameData) --- Updated functions (K72/73/K74) --- - WCDP Channel Table Data (rsfsq_confWCDPChTableData) channel type (former pitch flag) is improved - Read WCDP Trace Data (rsfsq_dataReadTraceWCDP) CWCDp and ABITstream added, functionality improved - Read WCDMA Trace Data (rsfsq_dataReadTraceWCDMA) description update, functionality improved - WCDP Measurement Mode (rsfsq_confWCDPMeasMode) new modes added, description changed - Get WCDP Measurement (rsfsq_actWCDPMarkMeas) new meas added, description changed - WCDPower Mode (rsfsq_actWCDPMode) option added, description changed - WCDPower MS Mode (rsfsq_actWCDPMSMode) option added, description changed --- New functions (K72/73/K74) --- - CDP Frame to Analyze (rsfsq_confCDPFrameAnalyze) - SEM Limit Line Check (rsfsq_actSEMLimitLineCheck) - CDP Analysis Base (rsfsq_confCDPAnalysisBase) - CDP Overview Display (rsfsq_confCDPOverviewDisplay) --- Updated functions (K82/K83/K84/K85) --- - Get C2k CDP Measurement (rsfsq_actC2kCDPMarkMeas) description changed - Configure C2k Band Class (rsfsq_confC2kBandClass) additional classes added, skipped optional "[BTS]", option added - Configure C2k Measurement (rsfsq_confC2kCDPMeas) skipped optional "[BTS]", option added, parameter's item added - CDP Measurement Mode (rsfsq_confC2kCDPMeasMode) option added, parameter items added - SEM Limit Line (rsfsq_confSEMLimitLine) option added - CDP Marker To (rsfsq_actCDPMarkTo) option added - CDP C2k Channel Table File (rsfsq_confC2kCDPChTableFile) option added - CDP C2k Channel Table Name (rsfsq_confC2kCDPChTableName) option added |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> - CDP C2k Channel Table Data (rsfsq_confC2kCDPChTableData) option added, parameters adjusted for options - CDP C2k Channel Table Comment (rsfsq_confC2kCDPChTableComment) option added - CDP C2k Channel Table Copy (rsfsq_confC2kCDPChTableCopy) option added - CDP C2k Channel Table Delete (rsfsq_confC2kCDPChTableDelete) option added - CDP C2k Channel Table Catalog (rsfsq_confC2kCDPChTableCatalog) option added - CDP C2k Channel Table (rsfsq_confC2kCDPChTable) option added - C2k CDPower Mode (rsfsq_actC2kCDPMode) description changed - CDP Inactive Channel Treshold (rsfsq_confCDPICT) option added - CDP Side Band (rsfsq_confCDPSBand) option added - CDP Level Auto Adjust (rsfsq_actCDPAutoAdj) option added - CDP Code Number (rsfsq_confCDPCodeNum) option added - CDP Signal Mapping (rsfsq_confCDPSigMap) option added - CDP Spreading Factor (rsfsq_confCDPSFactor) option added - CDP Normalize (rsfsq_confCDPNormalize) option added - CDP Q Invert (rsfsq_confCDPQInvert) option added - CDP Preference (rsfsq_confCDPPref) option added, additional item added - CDP C2k IQ Length (rsfsq_confC2kCDPIQLength) option added, range checking changed - CDP C2k Order (rsfsq_confC2kCDPOrder) option added - CDP C2k Timing And Phase Offs (rsfsq_confC2kCDPTPM) option added - Read C2k Trace Data (rsfsq_dataReadTraceC2k) option added, functionality improved <p>--- New functions (K82/K83/K84/K85) ---</p> <ul style="list-style-type: none"> - Read C2k CDP Trace Data (rsfsq_dataReadTraceC2kCDP) - CDP C2k Channel Table Restore (rsfsq_confC2kCDPChTableRestore) - C2k CDPower MS Mode (rsfsq_actC2kCDPMSMode) - CDP Long Code Mask (rsfsq_confCDPLCodeMask) - CDP Long Code Offset (rsfsq_confCDPLCodeOffset) - Get 1xEV-DO CDP Measurement (rsfsq_actEVDOCDPMarkMeas) - Get 1xEV-DO CDP MS Measurement (rsfsq_actEVDOCDPMSMarkMeas) - PVT Limit Line (rsfsq_confPVTLimitLine) - CDP RF Slot (rsfsq_confCDPRFSlot) - 1xEV-DO CDPower Mode (rsfsq_actEVDOCDPMode) - 1xEV-DO CDPower MS Mode (rsfsq_actEVDOCDPMSMode) - CDP Signal Mapping Mode (rsfsq_confCDPSigMapMode) - CDP Channel Type (rsfsq_confCDPChannelType) - CDP Averaging (rsfsq_confCDPAveraging) - CDP Operation Mode (rsfsq_confCDPOperationMode) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <p>--- Updated functions (K76/K77) ---</p> <ul style="list-style-type: none"> - CDP Scrambling Code (rsfsq_confCDPLCode) option added <p>--- New functions (K76/K77) ---</p> <ul style="list-style-type: none"> - Get TD-SCDMA CDP Measurement (rsfsq_actTDSCDMACDPMarkMeas) - Configure CDP Measurement (rsfsq_confCDPMeas) - CDP Channel Table Order (rsfsq_confCDPChTableOrder) - CDP Channel Table (rsfsq_confCDPChTable) - CDP Channel Table File (rsfsq_confCDPChTableFile) - CDP Channel Table Name (rsfsq_confCDPChTableName) - CDP Channel Table Copy (rsfsq_confCDPChTableCopy) - CDP Channel Table Delete (rsfsq_confCDPChTableDelete) - CDP Channel Table Comment (rsfsq_confCDPChTableComment) - CDP Channel Table Data (rsfsq_confCDPChTableData) - CDP Channel Table Catalog (rsfsq_confCDPChTableCatalog) - CDP Channel Table Midamble Shift (rsfsq_confCDPChTableMidambleShift) - CDP Switching Point (rsfsq_confCDPSwitchingPoint) - CDP Subframes (rsfsq_confCDPSubframes) - TD-SCDMA CDPower Mode (rsfsq_actTDSCDMACDPMode) - TD-SCDMA CDPower MS Mode (rsfsq_actTDSCDMACDPMSMode) - CDP Standard (rsfsq_confCDPStandard) - CDP Midamble Shift (rsfsq_confCDPMidambleShift) - Read CDP Trace Data (rsfsq_dataReadTraceCDP) <p>--- New functions (K9) ---</p> <ul style="list-style-type: none"> - PWR Meter Frequency (rsfsq_confPMetFrequency) - PWR Meter Frequency Coupling (rsfsq_confPMetFrequencyCoupling) - PWR Meter Units (rsfsq_confPMetUnits) - PWR Meter Meas Time (rsfsq_confPMetMeasTime) - PWR Meter Result Display (rsfsq_confPMetResultDisplay) - PWR Meter State (rsfsq_actPMetState) - PWR Meter Sensor Zeroing (rsfsq_actPMetSensorZeroing) - PWR Meter Reference Value (rsfsq_actPMetReferenceValue) - Fetch PWR Meter Result (rsfsq_dataFetchPMetResult) - Read PWR Meter Result (rsfsq_dataReadPMetResult) <p>--- New functions (K30) ---</p> <ul style="list-style-type: none"> - Noise Measurement Mode (rsfsq_actNoiseMeasMode) - Fetch Noise Measurement Result (Array) (rsfsq_dataFetchNoiseMeasArray) - Fetch Noise Measurement Result (Scalar) (rsfsq_dataFetchNoiseMeasScalar) - Noise Frequency Measurement (rsfsq_confNoiseFrequencyMeasurement) - Noise Frequency (rsfsq_confNoiseFrequency) - Noise Start Frequency (rsfsq_confNoiseStartFrequency) - Noise Stop Frequency (rsfsq_confNoiseStopFrequency) - Noise Step Frequency (rsfsq_confNoiseStepFrequency) - Noise Frequency Table (rsfsq_confNoiseFrequencyTable) - Noise Fixed IF Frequency (rsfsq_confNoiseFixedIFFrequency) - Noise LO Frequency (rsfsq_confNoiseLOFrequency) - Noise Image Rejection (rsfsq_confNoiseImageRejection) - Noise DUT Type (rsfsq_confNoiseDUTType) - Noise 2nd Stage Correction (rsfsq_confNoise2ndStageCorrection) - Noise 2nd Stage Correction State (rsfsq_confNoise2ndStageCorrectionState) - Noise Resolution Bandwidth (rsfsq_confNoiseRBW) - Noise Sweep Time (rsfsq_confNoiseSweepTime) - Noise DUT Settling Time (rsfsq_confNoiseDUTSettlingTime) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | <ul style="list-style-type: none"> - Noise DUT Range (rsfsq_confNoiseDUTRange) - Noise Average (rsfsq_confNoiseAverage) - Noise RF Attenuation (rsfsq_confNoiseRFAttenuation) - Noise Ref Level (rsfsq_confNoiseRefLevel) - Noise Pre-selector (rsfsq_confNoisePreselector) - Noise Pre-amplifier (rsfsq_confNoisePreamplifier) - Noise Generator Automatic Control (rsfsq_confNoiseGeneratorAuto) - Noise Generator Settings (rsfsq_confNoiseGeneratorSettings) - Noise Generator Level (rsfsq_confNoiseGeneratorLevel) - Noise Generator Frequency (rsfsq_confNoiseGeneratorFrequency) - Noise ENR Settings (rsfsq_confNoiseENRSettings) - Noise ENR Table (rsfsq_confNoiseENRTable) - Noise Loss Input Settings (rsfsq_confNoiseLossInputSettings) - Noise Loss Input Table (rsfsq_confNoiseLossInputTable) - Noise Loss Output Settings (rsfsq_confNoiseLossOutputSettings) - Noise Loss Output Table (rsfsq_confNoiseLossOutputTable) - Noise Trace Display (rsfsq_confNoiseTraceDisplay) - Noise Trace Settings (rsfsq_confNoiseTraceSettings) - Noise Gain Trace Settings (rsfsq_confNoiseGainTraceSettings) <p>--- Updated functions (K90/K91) ---</p> <ul style="list-style-type: none"> - Set Active Window (rsfsq_confSetActiveWindow) an alias command is provided (:DISPlay:SSElect) - WLAN Standard (rsfsq_confWLANStandard) parameter extended, option added, description changed - WLAN Center Frequency (rsfsq_confWLANCenterFrequency) description changed, option added - WLAN Channel No (rsfsq_confWLANChannelNo) description changed, option added - WLAN Auto Level (rsfsq_confWLANAutoLevel) description changed, option added - WLAN External Attenuation (rsfsq_confWLANExtAtt) description changed, option added - WLAN Signal Level (RF) (rsfsq_confWLANSignalLevelRF) description changed, option added - WLAN Signal Level (Baseband) (rsfsq_confWLANSignalLevelBaseband) description changed, option added - WLAN Capture Time (rsfsq_confWLANCaptureTime) description changed, option added - WLAN Overall Burst Count (rsfsq_confWLANOverallBurstCount) description changed, option added - WLAN Trigger Mode (rsfsq_confWLANTriggerMode) description changed, option added - WLAN Trigger Offset (rsfsq_confWLANTriggerOffset) description changed, option added - WLAN Trigger Level (rsfsq_confWLANTriggerLevel) description changed, option added - WLAN Swap IQ (rsfsq_confWLANSwapIQ) description changed, option added - WLAN Baseband Input (rsfsq_confWLANBasebandInput) description changed, option added - WLAN IQ Input (rsfsq_confWLANIQInput) description changed, option added - WLAN Balanced Input (rsfsq_confWLANBalancedInput) description changed, option added - WLAN Low Pass Input (rsfsq_confWLANLowPassInput) description changed, option added |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|--|
| | | <ul style="list-style-type: none"> - WLAN Dither Input (rsfsq_confWLANDitherInput) description changed, option added - WLAN Signal Symbol Field (rsfsq_confWLANSignalSymbolField) description changed, option added - WLAN Burst Type (rsfsq_confWLANBurstType) parameter extended, option added, description changed - WLAN Demodulator (rsfsq_confWLANDemodulator) parameter extended, option added, description changed - WLAN PSDU Modulation (rsfsq_confWLANPSDUModulation) parameter extended, option added, description changed - WLAN Equal Burst Length (rsfsq_confWLANEqualBurstLength) description changed, option added - WLAN No of Data Symbols (rsfsq_confWLANNoDataSymbols) description changed, option added - WLAN Min (Max) No of Data Symbols (rsfsq_confWLANMinMaxNoDataSymbols) description changed, option added - WLAN Channel Estimation in Preamble and Payload (rsfsq_confWLANChanEstPreambPayl) description changed, option added - WLAN Tracking Phase (rsfsq_confWLANTrackingPhase) description changed, option added - WLAN Tracking Timing (rsfsq_confWLANTrackingTiming) description changed, option added - WLAN Tracking Level (rsfsq_confWLANTrackingLevel) description changed, option added - WLAN Gating (rsfsq_confWLANGating) description changed, option added - WLAN Gate Delay (rsfsq_confWLANGateDelay) description changed, option added - WLAN Gate Length (rsfsq_confWLANGateLength) description changed, option added - WLAN Marker State (rsfsq_confWLANMarkerState) description changed, option added - WLAN Marker All Off (rsfsq_confWLANMarkerAllOff) description changed, option added - WLAN Marker to Trace (rsfsq_confWLANMarkerTrace) description changed, option added - WLAN Marker Position (x) (rsfsq_confWLANMarkerPositionx) description changed, option added - WLAN Marker Position (y) (rsfsq_confWLANMarkerPositiony) description changed, option added - WLAN Marker Carrier (rsfsq_confWLANMarkerCarrier) description changed, option added - WLAN Marker Symbol (rsfsq_confWLANMarkerSymbol) description changed, option added - WLAN Display Table (rsfsq_confWLANDisplayTable) description changed, option added - WLAN Mode (rsfsq_actWLANMode) description changed, option added - WLAN Measurement Mode (rsfsq_actWLANMeasMode) description changed, option added - WLAN Constellation Carrier Select (rsfsq_actWLANConstellationCarrierSelect) description changed, option added - WLAN Power Versus Time Select (rsfsq_actWLANPVTSelect) parameter extended, option added, description changed - WLAN Marker Zoom (rsfsq_actWLANMarkerZoom) |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|--|
| | | <ul style="list-style-type: none"> description changed, option added - WLAN Get Channel Power (rsfsq_actWLANGetChannelPower) description changed, option added - WLAN Get Marker Position (x) (rsfsq_confWLANGetMarkerPositionx) description changed, option added - WLAN Get Marker Position (y) (rsfsq_confWLANGetMarkerPositiony) description changed, option added - WLAN Get Marker Carrier (rsfsq_confWLANGetMarkerCarrier) description changed, option added - WLAN Get Marker Symbol (rsfsq_confWLANGetMarkerSymbol) description changed, option added - Fetch WLAN Burst Preamble Power (rsfsq_dataFetchWLANPreamblePower) description changed, option added - Fetch WLAN Burst Payload Power (rsfsq_dataFetchWLANPayloadPower) description changed, option added - Fetch WLAN Burst RMS Power (rsfsq_dataFetchWLANRMSPower) description changed, option added - Fetch WLAN Burst Peak Power (rsfsq_dataFetchWLANPeakPower) description changed, option added - Fetch WLAN Burst Crest Factor (rsfsq_dataFetchWLANCrestFactor) description changed, option added - Fetch WLAN Frequency Error (rsfsq_dataFetchWLANFreqError) description changed, option added - Fetch WLAN Symbol Error (rsfsq_dataFetchWLANSymbolError) description changed, option added - Fetch WLAN IQ Offset Error (rsfsq_dataFetchWLANIQOffset) description changed, option added - Fetch WLAN IQ Imbalance Error (rsfsq_dataFetchWLANGImbalance) description changed, option added - Fetch WLAN Quadrature Offset Error (rsfsq_dataFetchWLANQuadOffset) description changed, option added - Fetch WLAN EVM Results (rsfsq_dataFetchWLANEVMResults) parameter extended, option added, description changed - Read WLAN Trace Data (rsfsq_dataReadTraceWLAN) description changed, option added <p>--- New functions (K90/K91) --- WLAN Spectrum Mask Select (rsfsq_actWLANspectrumMaskSelect)</p> |
| 1.3.1 | 01/2004 | Modifications <ul style="list-style-type: none"> - Fixed function rsfsq_actTrackCorr - Added Remote-control command(s) to each FP function description - Sample rate value range changed (rsfsq_confTraceIQ and rsfsq_confTraceIQRate) - rsfsq_dataWriteTrace bug fix for RSIB support - File transfer from FSQ to the PC and vice versa rsfsq_readToFile rsfsq_writeFromFile |
| 1.3 | 11/2003 | Modifications <p>Added support for instrument options FS-K90 (WLAN 802.11A TX Tests) and FSQ-B71 (I/Q Baseband Input)</p> <ul style="list-style-type: none"> - Fixed functions rsfsq_confTrg - New functions rsfsq_setRFInIQImpedance rsfsq_setRFInIQBalanced rsfsq_setRFInSelect rsfsq_confWLANStandard |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|------|---|
| | | rsfsq_confWLANCenterFrequency rsfsq_confWLANChannelNo rsfsq_confWLANAutoLevel rsfsq_confWLANExtAtt rsfsq_confWLANSignalLevelRF rsfsq_confWLANSignalLevelBaseband rsfsq_confWLANCaptureTime rsfsq_confWLANOverallBurstCount rsfsq_confWLANTriggerMode rsfsq_confWLANTriggerOffset rsfsq_confWLANTriggerLevel rsfsq_confWLANSwapIQ rsfsq_confWLANBasebandInput rsfsq_confWLANIQInput rsfsq_confWLANBalancedInput rsfsq_confWLANLowPassInput rsfsq_confWLANDitherInput rsfsq_confWLANSignalSymbolField rsfsq_confWLANBurstType rsfsq_confWLANDemodulator rsfsq_confWLANPSDUModulation rsfsq_confWLANEqualBurstLength rsfsq_confWLANNoDataSymbols rsfsq_confWLANMinMaxNoDataSymbols rsfsq_confWLANChanEstPreambPayl rsfsq_confWLANTrackingPhase rsfsq_confWLANTrackingTiming rsfsq_confWLANTrackingLevel rsfsq_confWLANGating rsfsq_confWLANGateDelay rsfsq_confWLANGateLength rsfsq_confWLANMarkerState rsfsq_confWLANMarkerAllOff rsfsq_confWLANMarkerTrace rsfsq_confWLANMarkerPositionx rsfsq_confWLANMarkerPositiony rsfsq_confWLANMarkerCarrier rsfsq_confWLANMarkerSymbol rsfsq_confWLANDisplayTable rsfsq_actWLANMode rsfsq_actWLANMeasMode rsfsq_actWLANConstellationCarrierSelect rsfsq_actWLANPVTSelect rsfsq_actWLANMarkerZoom rsfsq_actWLANGetChannelPower rsfsq_confWLANGetMarkerPositionx rsfsq_confWLANGetMarkerPositiony rsfsq_confWLANGetMarkerCarrier rsfsq_confWLANGetMarkerSymbol rsfsq_dataReadTraceWLAN rsfsq_dataFetchWLANPreamblePower rsfsq_dataFetchWLANPayloadPower rsfsq_dataFetchWLANRMSPower rsfsq_dataFetchWLANPeakPower rsfsq_dataFetchWLANCrestFactor rsfsq_dataFetchWLANFreqError rsfsq_dataFetchWLANSymbolError |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
|----------|---------|--|
| | | rsfsq_dataFetchWLANIQOffset rsfsq_dataFetchWLANGImbalance rsfsq_dataFetchWLANQuadOffset rsfsq_dataFetchWLANEVMResults rsfsq_actServiceSourceIQCalSignal Minor changes in help text and FP file |
| 1.2 | 06/2003 | Modifications Added support for instrument option FS-K70 (VSA) Modified structure of the FP Tree For Agilent VISA Version L01 or higher and Agilent GPIB board added "/n" in I/O functions - New functions rsfsq_confVSAMDigiSTDExt rsfsq_confVSAMDigiSTDSave rsfsq_confVSAMDigiSTDDEL rsfsq_confVSAMDigiSTDDefault rsfsq_confVSAMDigiSTDCat rsfsq_confBToothMeasFilter rsfsq_confVSAMDigiDemod rsfsq_confVSAMDigiModSymRate rsfsq_confVSAMDigiModMap rsfsq_confVSAMDigiModMapCat rsfsq_confVSAMDigiModFilter rsfsq_confVSAMDigiModFilterCat rsfsq_confVSAMDigiModAlpha rsfsq_confVSAMDigiModFSKDev rsfsq_confVSAMDigiModPrate rsfsq_confVSAMDigiDemodRecLen rsfsq_confVSAMDigiDemodEvalLines rsfsq_confVSAMDigiDemodNorm rsfsq_confVSAMDigiDemodSband rsfsq_confVSAMDigiResultGroup rsfsq_confVSAMDigiResult rsfsq_confVSAMDigiResultRelAbs rsfsq_confVSAMDigiResultDemodFilter rsfsq_confVSAMDigiResultLength rsfsq_confVSAMDigiEVMCalc rsfsq_confSignalStatisticsState rsfsq_confSignalStatisticsBarsCount rsfsq_confVSAMDigiTraceAdjust rsfsq_confVSAMDigiTraceAlign rsfsq_confVSAMDigiTraceAlignValue rsfsq_confVSAMDigiTraceAlignOffset rsfsq_confVSAMDigiPatternPosition rsfsq_confVSAMDigiSetSymbolNum rsfsq_getVSAMxAxisStartValue rsfsq_getVSAMErrorVectorMagnitude rsfsq_getVSAMMagnitudeError rsfsq_getVSAMPhaseError rsfsq_getVSAMCarrierFrequencyError rsfsq_getVSAMAmplitudeDroopError rsfsq_getVSAMOriginOffsetError rsfsq_getVSAMIQImbalanceError rsfsq_getVSAMPowerMeasurement rsfsq_getVSAMRhoFactorError rsfsq_getVSAMTriggerDelay |

FSQ, FSG, FSUP, FSMR driver history

| Revision | Date | Note |
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| | | rsfsq_getVSAMFSKDeviationError rsfsq_getVSAMFSKDeviation rsfsq_getVSAMCarrierFrequencyDrift rsfsq_getVSAMDigiSyncPatternFound rsfsq_confVSAMBurstSearch rsfsq_confVSAMDigiBurstThreshold rsfsq_confVSAMDigiBurstExpertSearch rsfsq_confVSAMDigiBurstMOnly rsfsq_confVSAMPatternSearch rsfsq_confVSAMDigiSeq rsfsq_confVSAMDigiSeqSel rsfsq_confVSAMDigiSeqStd rsfsq_confVSAMDigiSeqCat rsfsq_confVSAMDigiSeqMOnly rsfsq_confVSAMDigiSeqModDegree rsfsq_dataReadTraceWCDP rsfsq_dataReadTraceC2k rsfsq_dataReadTraceVSA rsfsq_dataReadSymbol rsfsq_confVSAMDigiSeqStdCat - Added to the FSEx compatibility group rsfsq_confVSAMDigiSTD rsfsq_actVSAMMarkerDDemod - Modified functions rsfsq_confVSAMDisp rsfsq_actVSAMMode rsfsq_getVSAMParam rsfsq_getVSFMOffset rsfsq_confVSAMDemodMode rsfsq_confVSAMDigiSearchTime rsfsq_confSetActiveWindow rsfsq_actSAMCopyTrace rsfsq_dataWriteTrace - Description changes rsfsq_getADemodResultValues rsfsq_confVSAMADemodType rsfsq_dataReadTrace rsfsq_dataReadTraceWCDMA - Obsolete functions rsfsq_confVSAMDigiDemodFilter is moved here due to its inconsistency and is replaced by new function rsfsq_confBToothMeasFilter |
| 1.1 | 04/2003 | Modifications - Added new Help for LabVIEW - Get Peaks Values (rsfsq_getPeaksValues) fixed command string - Marker Search Parameter (rsfsq_confSAMMarkSearchParamExt) Range checkig for Search Limits is skipped. - New function Marker Search Limits (rsfsq_confSAMMarkSearchL imits) This driver supports the options B4, B9, B10, B12, B25, K5, K7, K8 (firmware 1.85 or higher), K72, K73, K82 (firmware 1.65 or higher) |
| 1.0.2 | 02/2003 | Modifications - Changed help texts of FSEx compatibility functions in fp file |
| 1.0.1 | 02/2003 | Modifications - Fixed for use in earlier versions of VISA without TCPIP support This driver supports the options B4, B9, B10, B12, B25, K5, K7, K8 (firmware 1.85 |

| FSQ, FSG, FSUP, FSMR driver history | | |
|--|---------|--|
| Revision | Date | Note |
| | | or higher), K72, K73, K82 (firmware 1.65 or higher) |
| 1.0. | 01/2003 | Created based on FSU instrument driver "Rev 1.3, 01/2003, CVI 6.0" This driver supports the options B4, B9, B10, B12, B25, K5, K7, K8 (firmware 1.85 or higher), K72, K73, K82 (firmware 1.65 or higher) |