R&S®EMC32
EMC Measurement Software
Specifications

ROHDE & SCHWARZ

Version 10.00, December 2017

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Software version

The following specifications are valid for software version 10.30.

User interface languages

The following user interface languages are supported in R&S®EMC32 version 10.0: English, German, French, Spanish, Chinese, Russian, Japanese

System requirements [1]

Operating system	Windows 10 (64-bit), Windows 8 (64-bit), Windows 7 (64-bit), Windows XP (32-bit version only) with Service Pack 3
CPU	Intel Core models or compatible models with a core speed > 2.4 GHz
Free RAM	≥ 4 Gbyte (Windows 10, Windows 8, Windows 7), ≥ 1 Gbyte (Windows XP)
Free hard disk space	≥ 10 Gbyte
Graphics resolution	≥ 1280 × 1024 pixel, 65536 colors (higher resolution strongly recommended)
Measuring instrument connection	IEEE bus interface from National Instruments with the latest available IEEE 488 driver (compatible cards from other manufacturers are not supported)
Installation	administrator access privileges during installation
NI Visa driver	has to be installed on the PC, typically available with NI GPIB interface
Software update	The integrated software update manager requires Internet access for querying the Rohde & Schwarz website on updates and important messages.
Open source acknowledgement	The R&S®EMC32 measurement software contains open source software packages. Copies of the respective licenses are included in the R&S®EMC32 measurement software open source acknowledgement. Please refer to the download area at http://www.emc32.rohde-schwarz.com/

Base software packages

R&S®EMC32-EB
EMI measurement software for conducted and radiated emissions

Standards	examples	CISPR
		EN
		ETSI
		FCC
		VCCI
		VDE
		MIL-STD-461
		DEF-STAN
Key features	• measurement of disturbance voltage, disturbance power and disturbance field strength	
	• use in product certification and precompliance testing during development	
	• in line with commercial, automotive and military standards	
	• flexible adaptation to requirements of various EMC applications	
	• libraries of limit lines for various international product standards and correction factors (antenna transducers, probes, LISNs, etc.)	
	• integrated calibration concept	
	• flexible report generator (HTML, RTF, PDF)	
	• EUT-specific or application-specific test storage and data management	
	• software operates as a virtual instrument	

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[1] If your PC does not meet these requirements, the performance of the software may be impaired.

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Supported devices [2]	test receivers	R&S®ESW
		R&S®ESU
		R&S®ESR
		R&S®ESRP
		R&S®ESCI
		R&S®ESPI
		R&S®ESL
		R&S®ESIB
		R&S®ESCS
		R&S®ESS
		R&S®ESPC
		R&S®ESHS/R&S®ESVS
		R&S®ESAI/R&S®ESBI/R&S®ESMI
		R&S®FSWT
		R&S®FSET
		R&S®ESN/R&S®ESVN
	spectrum analyzers	R&S®FSW
		R&S®FSV
		R&S®FSU
		R&S®FSP
		R&S®FSL
		R&S®FS300
		R&S®FSEA/R&S®FSEB/R&S®FSEM/ R&S®FSEK
	antenna masts and turntables	generic tripod
		Deisel HD100
		Innco CO2000
		Innco CO3000
		EMCO 2090
		ETS 2090
		Frankonia FCTAM01/04/05
		Schaefer HCM/HCT
		SUNOL
		Maturo controller
		generic mast/turntable
		Orbit/FR turntable
		R&S®DST200 positioner
	slide bars	Deisel
		Innco
		Schaefer HCA/RSA
	switch units	R&S®OSP
		R&S®TS-RSP
		R&S®SCIU
		R&S®RSU
		R&S®BBA100
		Teseo OAM01/OAM02
		Bonn RSU
		ADAM 6060
		generic switch unit
	signal generators	R&S®AM300
		R&S®SMG/H/Y
		R&S®SME
		R&S®SMT/R&S®SMP
		R&S®SML/R&S®SMV
		R&S®SMR
		R&S®SMA100A
		R&S®SMB100A
		R&S®SMC100A
		R&S®SMBV100A
		R&S®SMU200A
		R&S®SMJ100A
		R&S®SMF100A
		R&S®SM300

[2] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-S
EMS measurement software for conducted and radiated susceptibility

Standards	examples	IEC/EN 61000-4-3
		IEC/EN 61000-4-6
		IEC/EN 61000-4-20
		CISPR 24/EN 55024
		EN 60601-1-2
		EN 60601-2-x
Key features	• measurement of radiated and conducted susceptibility • use in product certification and testing during development • in line with commercial, automotive and military standards • flexible adaptation to requirements of various EMC applications • fully automatic control of EMS test system components • integrated calibration concept • various capabilities for EUT monitoring and EUT stimulation • interface to external EUT monitoring software • flexible report generator (HTML, RTF, PDF) • EUT-specific or application-specific test storage and data management • software operates as a virtual instrument	
Supported devices [3]	signal generators	R&S®AM300
		R&S®SMG/R&S®SMH/R&S®SMY
		R&S®SME
		R&S®SMT/R&S®SMP
		R&S®SML/R&S®SMV
		R&S®SMR
		R&S®SMA100A
		R&S®SMB100A
		R&S®SMC100A
		R&S®SMBV100A
		R&S®SMU200A
		R&S®SMJ100A
		R&S®SMF100A
		R&S®SM300
		R&S®HMF2525
		HM8134
		HM8135

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[3] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

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Supported devices [4]	power meters	R&S®NRP2
		R&S®NRP
		R&S®NRP-Zxx
		R&S®NRPxx-S(N)
		R&S®NRVD
		R&S®NRVS
		R&S®URV5/R&S®NRV/R&S®URY
		R&S®URE3/R&S®URE2/R&S®URE
		Gigatronics 8650
		Agilent E4417/4412A/4413A
		HP8508
	test receivers	R&S®ESW
		R&S®ESU
		R&S®ESR
		R&S®ESRP
		R&S®ESCI
		R&S®ESPI
		R&S®ESL
		R&S®ESIB
		R&S®ESCS
		R&S®ESS
		R&S®ESPC
		R&S®ESHS/R&S®ESVS
		R&S®ESAI/R&S®ESBI/R&S®ESMI
		R&S®ES(V)N
		R&S®FSWT
		R&S®FSET
	spectrum analyzers	R&S®FSW
		R&S®FSV
		R&S®FSU
		R&S®FSP
		R&S®FSL
		R&S®FS300
		R&S®FSEA/R&S®FSEB/R&S®FSEM/ R&S®FSEK
	amplifiers	R&S®BBA100
		R&S®BBA150
		R&S®BBL200
		Bonn BLWA
		Bonn BLMA
		Bonn BTA
		Bonn BSA
		AR (SCIU controlled)
		AR (TSRSP controlled)
		AR TxGx
		generic amplifier
	switch units	R&S®OSP
		R&S®TS-RSP
		R&S®SCIU
		R&S®RSU
		R&S®BBA100
		Teseo OAM01/OAM02
		Bonn RSU
		ADAM 6060
		generic switch unit
	field sensors	AR IF7000
		ETS HI6100
		Holaday IF4000
		AR FA72xx
		AR FM2000
		AR FM5004
		AR FM7004
		AR FI7000

[4] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

Supported devices [5]	field sensors	AR IF4000
		ETS HI6xxx
		AR IF-4456
		Narda EMR-200
		Narda EMC-300
		Narda NBM 520/550/580
		PMM EP6xx
		PMM EHP-200
		PMM OR03
		PMM 8053
		Wandel & Goltermann WG20
		Dare RadiSense/RadiCentre
		IFI EFS-6
		Generic field probe
	EUT monitoring	generic monitoring
		CE-SYS CECAM
		external PC monitoring
		mk-messtechnik video inserter
		Voelker SVG video inserter
		National Instruments USB 6009
		meM-ADfo
		USB-AD16f
		memM-PIO USB I/O
		R&S®RTO
		R&S®RTM
		R&S®RTE
		R&S®UPL
		R&S®UPV
		R&S®UPP200/R&S®UPP400/ R&S®UPP800
	antenna masts and turntables	generic tripod
		Deisel HD100
		Innco CO2000/CO3000
		Dare Radicenter
		EMCO 2090
		ETS 2090
		ETS EMCenter
		Frankonia FCTAM01/04/05
		Schaefer HCM/HCT
		SUNOL
		Maturo Controller
		Maturo NCD field probe positioner
		generic mast/turntable
		Orbit/FR turntable
		R&S®DST200 positioner
	interlock devices	R&S®TS-RSP
		R&S®SCIU
		Bonn Amplifier
		meM-PIO USB-I/O
		R&S®OSP
		R&S®BBA100
		R&S®BBA150

[5] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

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Options

R&S®EMC32-K1
EMS measurements in line with automotive and military standards

Required R&S®EMC licenses		R&S®EMC32-S
Standard	examples	ISO 11451
		ISO 11452
		MIL-STD-461E/F, CS114
		MIL-STD-461E/F, RS103
		RTCA DO 160 G
		SAE J1113
		SAE J551
		2004/104 EC
		ECE 10 revision 3
		car manufacturer standards
Key features	• enhanced EMS level functions • monitoring of automotive bus systems (CAN, LIN, MOST, FlexRay™) • automatic determination of immunity thresholds • direct power injection measurements • TEM cell attenuation measurement	
Supported devices [6]	arbitrary generators	R&S®AM300
		R&S®SMA100A pulse train option
		R&S®SMB100A pulse train option
		R&S®SMF100A pulse train option
		R&S®HMF2525, R&S®HMF2550
		Agilent 33220A/33250A
		Tektronix AFG320
	EUT monitoring	Vector CANoe
		Vector CANalyzer

R&S®EMC32-K2
RSE and ABT measurements on wireless devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Standard	examples	ETSI EN 301489-x
		ETSI EN 300607
Key features	• radiated spurious emission (RSE) measurements • audio breakthrough (ABT) measurements • support of filter banks • support of all major wireless technologies	
Supported devices [6]		R&S®CMW500
		R&S®OSP-Fxxx
		R&S®CMU200 [7]
		R&S®CBT32 [7]
		R&S®PTW70 [7]

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[6] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

[7] Discontinued product.

R&S®EMC32-K3
EMS measurements in reverberation chambers (mode-tuned method)

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K4
Standard	examples	IEC/EN 61000-4-21
		Ford ES-XW7T-1A278-AC
		GMW3097
		RTCA DO160
		MIL-STD-461E/F
Key features	• calibration of reverberation chamber (loaded and unloaded) • EUT check • EUT test	
Supported devices [8]		tuner devices and turntable drivers (see R&S®EMC32-EB/R&S®EMC32-S)

R&S®EMC32-K4
EMS autotest

Required R&S®EMC32 licenses		R&S®EMC32-S
Key features	• sequential EUT tests with several parameters (loops) • several modulation modes • several turntable positions • several antenna polarizations	
Supported devices [8]	field probe positioning devices	TDK PP02
		TDK SI200
		Innco FSM2315
		Innco FSM916
		Beckmann Probotic
		Maturo FPP

R&S®EMC32-K6
EMS measurements (CS103, CS104, CS105)

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K1
Standards		MIL-STD-461E/F, CS103, CS104, CS105
Key features	receiver sensitivity measurements	

R&S®EMC32-K7
generic device drivers

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	support of third-party instruments	
Supported devices [8]	signal generators	generic generator
	power meters	generic power meter
	oscilloscopes (for EUT monitoring)	generic oscilloscope
	spectrum analyzers	generic analyzer
	test receivers	generic receiver

R&S®EMC32-K8
interface to lab management systems

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	• interface to dacore LabMan RS lab management software • interface to other products on request	
Supported devices [8]		dacore LabMan RS

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[8] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

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R&S®EMC32-K10
EMI autotest

Required R&S®EMC32 licenses		R&S®EMC32-EB
Key features	- test sequence for fully automatic, reproducible EMI measurements - preview measurement, data reduction and determination of critical frequencies - system check - stop/continue autotest flow - automatic report generation	
Supported devices [9]	spectrum analyzers	generic analyzer
	test receivers	generic receiver

R&S®EMC32-K10A
EMI autotest extension for spurious measurements

Required R&S®EMC32 licenses		R&S®EMC32-EB and EMC32-K10
Key features	extension to perform the spurious measurements in line with EN 300328, EN 301893 and EN 302502	

R&S®EMC32-K11
test sequencer

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	- sequential test runs for both EMI and EMS measurements - test plan for different categories - individual and comprehensive reports in line with customer requirements	

R&S®EMC32-K21
application interface

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	- automation of additional measurements using EMC test system - intuitive macro language for test sequence control with − mathematical operations − call of subprograms; access to remote interface (GPIB, LAN) - use as standalone test, action or EUT monitoring device	

R&S®EMC32-K22
azimuth chart

Required R&S®EMC32 licenses		R&S®EMC32-EB
Key features	- measurement of radiation pattern (2D) - display as polar diagram (azimuth chart) - passive antenna measurement	

R&S®EMC32-K23
3D result evaluation

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Key features	- evaluation of preview and/or maximization results of radiated OATS measurements 3D chart (cylindrical coordinate characterization) for a specific frequency - easy chart generation using drag & drop - interactive rotation of chart - smooth scaling, zooming and interpolation - display of horizontal and vertical cuts	

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[9] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-K24
interactive EMI autotest

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Key features		• interactive verification of critical frequencies and final measurement results • repetition of autotest measurement steps for selected frequencies

R&S®EMC32-K251
RSE and ABT measurements on TD-SCDMA devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB, R&S®EMC32-K2, R&S®EMC32-K10
Standard	examples	ETSI EN 301489
		ETSI EN 300607
Key features	measurement on TD-SCDMA devices	
Supported devices [10]		R&S®CMW500

R&S®EMC32-K26
RSE and ABT measurements on LTE devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB, R&S®EMC32-K2, R&S®EMC32-K10
Standard	examples	ETSI EN 301489
		ETSI EN 300607
Key features	measurement on LTE devices	
Supported devices [10]		R&S®CMW500
		R&S®OSP with R&S®OSP-B155

R&S®EMC32-K27
dual receiver measurement

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Standards		all commercial EMI standards
Key features		• support of two receivers simultaneously e.g. one horizontal, the other vertical • reduced measurement time • versatile measurement modes • automatic antenna angle offset • separate receivers for antennas • sweep data from two receivers saved separately and merged before data reduction
Supported devices [10]	Two receivers of the same product line required. Examples: R&S®ESW8 and R&S®ESW44 or R&S®FSV4 and R&S®FSV40	refer to R&S®EMC32-EB

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[10] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

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R&S®EMC32-K33
EMI measurements in reverberation chambers (mode-tuned method)

Required R&S®EMC32 licenses		R&S®EMC32-EB and R&S®EMC32-K10
Standard	examples	EN 61000-4-21 annex E
Key features	• preview measurement for different tuner steps in defined frequency subranges • calculation and display of the DUT's radiated power and estimated free-space field strength • optional data reduction to mark critical frequencies compared to limit line • use of chamber calibration data and DUT check data from R&S®EMC32-K3 susceptibility section	
Supported devices [11]		tuner devices and turntable drivers (see R&S®EMC32-EB/R&S®EMC32-S)

R&S®EMC32-K35
EMS measurements on multimedia receivers

Required R&S®EMC32 licenses		R&S®EMC32-S and R&S®EMC32-K35 [12]
Standard		CISPR 35
Key features	• control of broadcast generators • automatic adaptation of immunity shape taking into account tuner frequency range, tuned channel and spot tests • sound reference measurement	
Supported devices [11]		R&S®BTC
		R&S®SFE/R&S®SFE100, R&S®SFU, R&S®VTC, R&S®VTE, R&S®VTS, R&S®DVSG

R&S®EMC32-K37
EMS autotest: extension for sequences of multimedia tests

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K4, R&S®EMC32-K35

Key features	• extension to perform sequences of multimedia tests on broadcast receivers in line with CISPR 35 (R&S®EMC32-K35)
	• sequential EUT tests with several parameters (loops)
	  − multimedia test type (audio or display),
	  − multimedia broadcast channel (as supported by the selected broadcast generator instrument)
	  − multimedia test port (as defined in the selected EUT Information file)	

R&S®EMC32-K48
shielding effectiveness test

Required R&S®EMC licenses		R&S®EMC32-S, R&S®EMC32-K4
Standard	examples	IEEE 299
		MIL-STD-285
		MIL-STD-188-125-1
		BS EN 50147-1
		ASTM D4935-10
		IEC 62153-4-6
		other standards similar to the above
Key features	• automatic settings for optimized dynamic range • automatic settings for signal generation • control switching of signal generators and antennas • display of real time shielding effectiveness test results • automatic report generation	

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[11] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

[12] Some EMI measurements in line with CISPR 32 using R&S®EMC32-EB are also supported.

R&S®EMC32-K51
EMI band evaluation

Required R&S®EMC32 licenses		R&S®EMC32-EB
Standard	examples	Ford ES-XW7T-1A278-AC
		GMW 3091
		GMW 3097
Key features	on-board EMI measurement sequence in broadband and communications frequency bands for automotive and aerospace applications	

R&S®EMC32-K52
Limit line based measurement sequence

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K51
Standard		various automotive manufacturers' standard
Key features	• evaluation of measurement result against several, overlapping limit lines • reference lines for comparison of measurement results to previous measurements or reference measurements	

R&S®EMC32-K56
EMI measurements on transmitters (in transmit mode)

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Standard	examples	MIL-STD-461E/F, CE106
		MIL-STD-461E/F, RE103
Key features	• preview measurement with determination of fundamental frequency either automatically or via operator input • calculation and display of required limit line with increased margin level depending on harmonics number • optional data reduction to mark critical frequencies compared to limit line	

R&S®EMC32-K84
report interface to word processing apps

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB

Key features	• summary test report over a test session for a single EUT
	  − report based on Word .dotx files referencing R&S®EMC32 report components via field text commands
	  − main report section with test summary table
	  − sub reports based on application specific sub report templates .dotx
	  − easy selection of tests to be included in the summary report
	• single test report extension to output report as a Word .docx file	

R&S®EMC32-K974
remote control interface for R&S®EMC32, R&S®AMS32 and R&S®WMS32

Required R&S®EMC32 licenses		R&S®EMC32-EB and/or R&S®EMC32-S
Key features	• load test • start test • stop test • pause test • save test	

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Software upgrade options

R&S®EMC32-U9E
option for upgrade of emission base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-EB/R&S®EMC32-E/ R&S®EMC32-E+ version 8.xx or lower to version 9.xx and 10.0

R&S®EMC32-U9S
option for upgrade of susceptibility base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-S version 8.xx or lower to version 9.xx and 10.0

R&S®EMC32-UP9
option for upgrade of emission and susceptibility base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-A/R&S®EMC32-A+/R&S®EMC32-C/R&S®EMC32-W+ version 8.xx or lower to version 9.xx and 10.0

Ordering information

Designation	Type	Order No.
Base software		
EMI Measurement Software, for conducted and radiated emissions	R&S®EMC32-EB	1300.7010.02
EMS Measurement Software, for conducted and radiated susceptibility	R&S®EMC32-S	1119.4638.02
Options		
EMS Measurements in line with Automotive and Military Standards	R&S®EMC32-K1	1147.5493.02
RSE and ABT Measurements on Wireless Devices	R&S®EMC32-K2	1147.5506.02
EMS Measurements in Reverberation Chambers (mode-tuned method)	R&S®EMC32-K3	1147.5512.02
EMS Autotest	R&S®EMC32-K4	1147.5529.02
EMS Measurements (CS103, CS104, CS105)	R&S®EMC32-K6	1147.5541.02
Generic Device Drivers	R&S®EMC32-K7	1144.5134.02
Interface to Lab Management Systems	R&S®EMC32-K8	1117.7652.02
EMI Autotest	R&S®EMC32-K10	1117.6840.02
EMI Autotest Extension for Spurious Measurements	R&S®EMC32-K10A	1527.1050.02
Test Sequencer	R&S®EMC32-K11	1117.6862.02
Application Interface	R&S®EMC32-K21	1117.7630.02
Azimuth Chart	R&S®EMC32-K22	1117.7646.02
3D Result Evaluation	R&S®EMC32-K23	1504.9190.02
Interactive EMI Autotest	R&S®EMC32-K24	1518.3202.02
RSE and ABT Measurements on TD-SCDMA Devices	R&S®EMC32-K251	1520.5250.02
RSE and ABT Measurements on LTE Devices	R&S®EMC32-K26	1518.1739.02
Dual Receiver Measurement	R&S®EMC32-K27	5601.0324.02
EMI Measurements in Reverberation Chambers (mode-tuned method)	R&S®EMC32-K33	1515.2663.02
EMS Measurements on Multimedia Receivers	R&S®EMC32-K35	1519.6270.02
EMS Autotest, Extension for Sequences of Multimedia Tests	R&S®EMC32-K37	1519.6292.02
Shielding Effectiveness Test	R&S®EMC32-K48	5601.0301.02
EMI Band Evaluation	R&S®EMC32-K51	1504.9026.02
Limit Line Based Measurement Sequence	R&S®EMC32-K52	1531.5186.02
EMI Measurements on Transmitters (in transmit mode)	R&S®EMC32-K56	1504.9226.02
Report Interface to Word Processing Apps	R&S®EMC32-K84	1522.9076.02
Remote Control Interface for R&S®EMC32, R&S®AMS32 and R&S®WMS32	R&S®EMC32-K974	1520.9879.02
Upgrade of R&S®EMC32-EB, R&S®EMC32-E or R&S®EMC32-E+ to version 9.xx and 10.0	R&S®EMC32-U9E	1518.2870.02
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Rohde & Schwarz GmbH & Co. KG
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Rohde & Schwarz training
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Regional contact
ı Europe, Africa, Middle East | +49 89 4129 12345
  customersupport@rohde-schwarz.com
ı North America | 1 888 TEST RSA (1 888 837 87 72)
  customer.support@rsa.rohde-schwarz.com
ı Latin America | +1 410 910 79 88
  customersupport.la@rohde-schwarz.com
ı Asia Pacific | +65 65 13 04 88
  customersupport.asia@rohde-schwarz.com
ı China | +86 800 810 82 28 | +86 400 650 58 96
  customersupport.china@rohde-schwarz.com

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