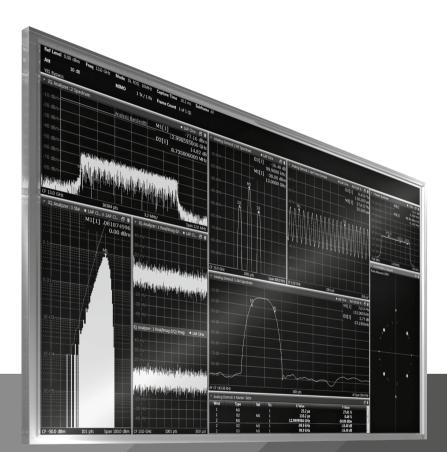
R&S®VSE VECTOR SIGNAL EXPLORER BASE SOFTWARE

Specifications



Data Sheet Version 15.00

ROHDE&SCHWARZ

Make ideas real



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Definitions

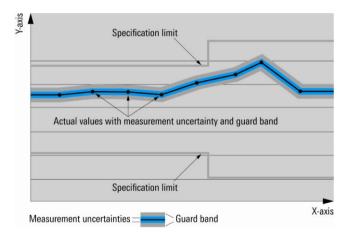
General

Product data applies under the following conditions:

- Three hours storage at ambient temperature followed by 30 minutes warm-up operation
- Specified environmental conditions met
- Recommended calibration interval adhered to
- All internal automatic adjustments performed, if applicable

Specifications with limits

Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as $\langle, \leq, \rangle, \geq, \pm$, or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.



Specifications without limits

Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value (e.g. dimensions or resolution of a setting parameter). Compliance is ensured by design.

Typical data (typ.)

Characterizes product performance by means of representative information for the given parameter. When marked with <, > or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

Nominal values (nom.)

Characterize product performance by means of a representative value for the given parameter (e.g. nominal impedance). In contrast to typical data, a statistical evaluation does not take place and the parameter is not tested during production.

Measured values (meas.)

Characterize expected product performance by means of measurement results gained from individual samples.

Uncertainties

Represent limits of measurement uncertainty for a given measurand. Uncertainty is defined with a coverage factor of 2 and has been calculated in line with the rules of the Guide to the Expression of Uncertainty in Measurement (GUM), taking into account environmental conditions, aging, wear and tear.

Device settings and GUI parameters are designated with the format "parameter: value".

Typical data as well as nominal and measured values are not warranted by Rohde & Schwarz.

Specifications

The specifications of the R&S[®]VSE are based on the data sheet specifications of the R&S[®]FSW, R&S[®]FSWP, R&S[®]FSVA3000, R&S[®]FSV3000, R&S[®]FSVA, R&S[®]FSV, R&

Minimum system requirements for the R&S®VSE

Running on a PC

Operating system	Windows 7, 64 bit/Windows 10, 64 bit
Hard disk space	5 Gbyte
RAM	≥ 4 Gbyte
CPU	min. 1.5 GHz (> 2.5 GHz recommended)
Graphics resolution	≥ 1280 × 1024 pixel
USB	1 free USB port for connecting the R&S [®] FSPC smart card reader
	(if no floating server or PC built-in smart card reader is used)
Measuring instrument connection	LAN connection (VXI-11, Hi-Slip), VISA driver ¹

Running on an instrument

Using a keyboard and mouse with the instrument is suggested for optimum operation. Front panel keys of the instrument are only for operating the firmware and not the R&S[®]VSE.

R&S [®] FSW	R&S [®] FSW firmware version 2.40 or newer
R&S [®] FSVA3000, R&S [®] FSV3000	R&S [®] FSVA3000/R&S [®] FSV3000 firmware version 1.10 or newer
R&S [®] RTP	Windows 10, 64 bit operating system
R&S [®] RTO	Windows 7, 64 bit/Windows 10, 64 bit operating system

R&S[®]VSE

Frequency

Frequency range	ency range RF input same as supported instrument			
Level				
Level range	RF input	same as supported instrument		

 $^{^1~}$ R&S $^{\ensuremath{\texttt{R}}}VISA$ is provided with the R&S $^{\ensuremath{\texttt{R}}}VSE$ Installer.

Signal acquisition

Signal analysis bandwidth RF	same as supported instrument
Signal analysis bandwidth, baseband I/Q ²	same as supported instrument × 2
Signal analysis bandwidth, baseband I only ²	same as supported instrument

R&S®	FSW	FSWP ³	FSVA3000	FSV3000	FSVA	FSV	FPS	FPL1000, ZNL ⁴	FSL
Maximu	m record ler	ngth							
see corre	esponding da	ta sheet of the	instrument for	details					
Available	e bandwidth	IS							
10 MHz	•	•	•	•	•	•	•	•	•
28 MHz	• 5	• 6	•	•	• 7	• 8,9	• ¹⁰	• 11	•
40 MHz	• ¹²	• 6	• ¹³	• ¹³	• 7, 14	 8, 9, 15 	 10, 16 	• ¹¹	-
80 MHz	• ¹⁷	• 6	• ²⁰	• ²⁰	• 7, 21	 8, 9, 21 	 10, 22 	_	-
160 MHz	• ¹⁸	• ¹⁹	• ²⁰	• ²⁰	• 7, 21	 8, 9, 21 	 10, 22 	_	-
320 MHz	• ²³	• ¹⁹	• 24	_	_	_	_	_	-
500 MHz	• 25	_	 ²⁶ 	_	_	_	_	_	-
1.0 GHz	• 27	_	• ²⁸	_	_	-	_	_	-
2 GHz	• 29, 30	_	_	_	_	_	_	_	-
4 GHz	• ³¹	_	_	_	_	-	_	_	-
6 GHz	• ³²	_	_	_	_	_	_	_	-
8.3 GHz	• ³³	_	_	_	_	_	_	_	-

- 2 Only available with R&S $^{\ensuremath{\$}} RTO$ or R&S $^{\ensuremath{\$}} RTP.$
- ³ R&S[®]FSWP-B1 option required.
- ⁴ R&S[®]ZNL3-B1 or R&S[®]ZNL6-B1 option required.
- ⁵ R&S[®]FSW-B28 option required.
- ⁶ R&S[®]FSWP-B80 option required.
- $^7~$ R&S $^{\! \rm B}$ FSVA-B11 option required for f > 7 GHz.
- ⁸ Only for $f \le 7$ GHz.
- ⁹ Not available for R&S[®]FSV40, model .39.
- 10 R&S[®]FPS-B11 option required for f > 7 GHz.
- ¹¹ R&S[®]FPL-B40 option required.
- ¹² R&S[®]FSW-B40 option required.
- ¹³ R&S[®]FSV3-B40 option required.
- ¹⁴ R&S[®]FSVA-B40 option required.
- 15 R&S $^{\! 8}\text{FSV-B70}$ option required.
- $^{16}~\text{R\&S}^{\$}\text{FPS-B40}$ option required.
- ¹⁷ R&S[®]FSW-B80 option required.
- ¹⁸ R&S[®]FSW-B160 option required.
- ¹⁹ R&S[®]FSWP-B320 option required.
- ²⁰ R&S[®]FSV3-B200 option required.
- ²¹ R&S[®]FSV-B160 option required.
- ²² R&S[®]FPS-B160 option required.
- ²³ R&S[®]FSW-B320 option required.
- ²⁴ R&S[®]FSV3-B400 option required.
- 25 R&S $^{\otimes}$ FSW-B500, R&S $^{\otimes}$ FSW-B512 or R&S $^{\otimes}$ FSW-B1200 option required.
- ²⁶ R&S[®]FSV3-B600 option required.
- ²⁷ R&S[®]FSW-B1200 option required.
- ²⁸ R&S[®]FSV3-B1000 option required.
- ²⁹ R&S[®]FSW-B2000 option required.
- 30 R&S $^{\ensuremath{\texttt{R}}}FSW\text{-}B2001$ option required.
- ³¹ R&S[®]FSW-B4001 option required.
- 32 R&S $^{\ensuremath{\texttt{R}}}FSW\text{-}B6001$ option required.
- ³³ R&S[®]FSW-B8001 option required.

	R&S [®] RTP		R&S [®] RTO2000 ³⁴		R&S [®] RTO1000 ³⁴	
	speed optimized ³⁵	memory optimized	speed optimized	memory optimized ³⁶	speed optimized	memory optimized ³⁶
Maximum record length	see correspond	ing data sheet of t	he instrument for	details		
Available bandwidths						
500 MHz	•	•	•	•	•	•
1 GHz ³⁷	•	•	•	•	•	•
2 GHz ³⁸	•	•	•	•	•	•
3 GHz ³⁹	•	•	•	•	•	•
4 GHz ⁴⁰	•	•	•	•	•	•
6 GHz ^{41, 42}	•	•	-	•	-	-
8 GHz ⁴³	•	•	_	_	_	_
13 GHz ⁴⁴	_	•	_	_	_	-
16 GHz ⁴⁵	-	•	_	_	_	-

Analog baseband input²

	R&S [®] RTP	R&S [®] RTP		R&S®RTO2000		000
	I and Q	differential	I and Q	differential	I and Q	differential
		I and Q		I and Q		I and Q
Maximum record length	see correspor	nding data sheet of	f the instrument	for details		
Available bandwidths						
1 GHz	•	•	•	•	•	•
2 GHz ³⁷	•	•	•	•	•	•
4 GHz ³⁸	•	•	•	•	•	•
6 GHz ³⁹	•	•	•	•	•	•
8 GHz ⁴⁰	•	•	•	•	•	•
12 GHz ^{41, 42, 43}	•	•	•	•	•	•
16 GHz ^{43, 44}	•	•	_	-	-	_

³⁴ R&S[®]RTO-K11 I/Q software interface required.

³⁵ R&S[®]RTP-K11 I/Q software interface required. Firmware version 4.60 required.

³⁶ For R&S®RTO1000 firmware version 3.0.1.1 or higher required, for R&S®RTO2000 firmware version 3.50.3.1 or higher required.

 $^{^{37}}$ R&S^{temperature}RTO with 1 GHz bandwidth required.

 $^{^{\}rm 38}$ R&S^®RTO with 2 GHz bandwidth required.

³⁹ R&S[®]RTO with 3 GHz bandwidth required.

 $^{^{40}~\}text{R\&S}^{\$}\text{RTO}$ with 4 GHz bandwidth required.

 $^{^{41}}$ R&S $^{\ensuremath{\$}R}$ RTO with 6 GHz bandwidth required.

 $^{^{42}}$ R&S®RTP with 6 GHz bandwidth required.

 $^{^{43}}$ R&S $^{\! 8} \text{RTP}$ with 8 GHz bandwidth required.

⁴⁴ R&S[®]RTP with 13 GHz bandwidth required.

 $^{^{45}}$ R&S $^{\$}$ RTP with 16 GHz bandwidth required.

Triggering

R&S [®]	FSW	FSWP	FSVA3000, FSV3000	FSVA, FSV	FPS	FPL1000, ZNL	FSL	RTP, RTO
RF input ⁴⁶ same as supported instrument						manual ⁴⁷ and external trigger		
I/Q file	magnitude, tin	ne						

Measurement parameters

Input		RF
Swap I/Q		on/off
FFT parameter	algorithm	single, average
	FFT length	3 to 524288
	window function	flattop, Gaussian, rectangle, 5-term,
		Blackman-Harris
	window length	3 to current record length
	window overlap	0 to 0.95
Spectrum display	frequency points	51 to 524288
Statistic display	histogram bins	up to 1024
Overlap processing		0 % to 99.9 %
I/Q file recording	record length	same as supported instrument ⁴⁸

Software features

I/Q file handling	recording
	playback
Hardware support	up to 20 instruments in parallel when using R&S®VSE enterprise edition
Sequencer	parallel measurement execution on different instruments when using R&S®VSE enterprise edition
	sequential measurement execution on the same instrument
Multi-measurement	configure multiple measurements in parallel

Supported measurement modes

Adjacent channel leakage ratio (ACLR)	measures the active channel or adjacent channel power for one or more
	carrier signals, depending on the current measurement configuration
Occupied bandwidth (OBW)	measures the occupied bandwidth, i.e. the bandwidth which must contain a
	defined percentage of the power
Spectrum emission mask (SEM)	defines a measurement that monitors compliance with a spectral mask;
	the mask is defined with reference to the input signal power
I/Q analyzer	general I/Q data analysis

 ⁴⁶ Trigger availability depends on the instrument used.
 ⁴⁷ Configuring the trigger directly on the device.
 ⁴⁸ The maximum record length can be restricted in case the R&S[®]VSE needs to use a resampler.

Result displays in I/Q analyzer

Magnitude	traces	up to 6		
	markers	up to 17		
	scaling	lin/log/lin with unit		
Spectrum	traces	up to 6		
	markers	up to 17		
	scaling	lin/log/lin with unit		
	marker functions	band power marker		
I/Q vector	traces	up to 6		
	markers	up to 17		
Real/image (I/Q)	traces	up to 6		
	markers	up to 17		
Marker table	for each marker	X value		
		Y value		
		band power value		
		reference marker		
		trace		
Statistics APD	traces	2		
	markers	up to 17		
Statistics CCDF	traces	1		
	markers	up to 17		
Phase versus time	traces	up to 6		
	markers	up to 17		

Remote programming

SCPI	The SCPI remote interface allows full access to the R&S®VSE features.
Remote display	To operate the R&S [®] VSE software or view its display from a remote PC, the use of
	Windows remote desktop or VNC is recommended.

File formats

MATLAB®	.mat(v4)	native support, maximum file size is 2 Gbyte or 500000 complex samples, please refer to the MathWorks [®] documentation for details
	.mat(v7.3)	native support; maximum size of the .mat file is imposed only by your native file system, please refer to the MathWorks® documentation for details
ASCII	.CSV	
Rohde & Schwarz formats	.iq.tar	I/Q data is always formatted as complex and float32. For details, see www.rohde-schwarz.com.
	.iqw	float32 is always exported as (II, QQ)
	.wv	see R&S [®] WinIQSIM2™ or R&S [®] SMW user manual for details
	.iqx	see R&S [®] IQW user manual for details
	.aid	see R&S [®] CA100 user manual for details

Connectivity

	R&S [®] VSE basic edition	R&S [®] VSE enterprise edition
Maximum number of channels	3	30
Maximum number of groups	1	30
Maximum number of connected	1	128
instruments		

Supported instruments

For details, see the corresponding data sheets.

Designation	Туре	Order No.	
Analyzers			
R&S [®] FSW ⁴⁹			
Signal and spectrum analyzer, 2 Hz to 8 GHz	R&S [®] FSW8	1331.5003.08	
Signal and spectrum analyzer, 2 Hz to 13.6 GHz	R&S [®] FSW13	1331.5003.13	
Signal and spectrum analyzer, 2 Hz to 26.5 GHz	R&S [®] FSW26	1331.5003.26	
Signal and spectrum analyzer, 2 Hz to 43.5 GHz	R&S [®] FSW43	1331.5003.43	
Signal and spectrum analyzer, 2 Hz to 50 GHz	R&S [®] FSW50	1331.5003.50	
Signal and spectrum analyzer, 2 Hz to 67 GHz	R&S [®] FSW67	1331.5003.67	
Signal and spectrum analyzer, 2 Hz to 85 GHz	R&S [®] FSW85	1331.5003.85	
R&S [®] FSWP ⁵⁰			
Phase noise analyzer, 1 MHz to 8 GHz	R&S [®] FSWP8	1322.8003.08	
Phase noise analyzer, 1 MHz to 26.5 GHz	R&S [®] FSWP26	1322.8003.26	
Phase noise analyzer, 1 MHz to 50 GHz	R&S [®] FSWP50	1322.8003.50	
R&S [®] FSVA3000, R&S [®] FSV3000			
Signal and spectrum analyzer, 10 Hz to 4 GHz	R&S [®] FSVA3004	1330.5000.05	
Signal and spectrum analyzer, 10 Hz to 7.5 GHz	R&S [®] FSVA3007	1330.5000.08	
Signal and spectrum analyzer, 10 Hz to 13.6 GHz	R&S [®] FSVA3013	1330.5000.14	
Signal and spectrum analyzer, 10 Hz to 30 GHz	R&S [®] FSVA3030	1330.5000.31	
Signal and spectrum analyzer, 10 Hz to 44 GHz	R&S [®] FSVA3044	1330.5000.44	
Signal and spectrum analyzer, 10 Hz to 4 GHz	R&S [®] FSV3004	1330.5000.04	
Signal and spectrum analyzer, 10 Hz to 7.5 GHz	R&S [®] FSV3007	1330.5000.07	
Signal and spectrum analyzer, 10 Hz to 13.6 GHz	R&S [®] FSV3013	1330.5000.13	
Signal and spectrum analyzer, 10 Hz to 30 GHz	R&S [®] FSV3030	1330.5000.30	
Signal and spectrum analyzer, 10 Hz to 44 GHz	R&S®FSV3044	1330.5000.43	
$R\&S^{\otimes}FSVA^{51}$, $R\&S^{\otimes}FSV^{52}$	Ra3 F3V3044	1330.3000.43	
Signal and spectrum analyzer, 10 Hz to 4 GHz	R&S [®] FSVA4	1321.3008.05	
Signal and spectrum analyzer, 10 Hz to 7 GHz	R&S [®] FSVA4		
o		1321.3008.08	
Signal and spectrum analyzer, 10 Hz to 13.6 GHz	R&S®FSVA13	1321.3008.14	
Signal and spectrum analyzer, 10 Hz to 30 GHz	R&S®FSVA30	1321.3008.31	
Signal and spectrum analyzer, 10 Hz to 40 GHz	R&S®FSVA40	1321.3008.41	
Signal and spectrum analyzer, 10 Hz to 4 GHz	R&S®FSV4	1321.3008.04	
Signal and spectrum analyzer, 10 Hz to 7 GHz	R&S [®] FSV7	1321.3008.07	
Signal and spectrum analyzer, 10 Hz to 13.6 GHz	R&S [®] FSV13	1321.3008.13	
Signal and spectrum analyzer, 10 Hz to 30 GHz	R&S [®] FSV30	1321.3008.30	
Signal and spectrum analyzer, 10 Hz to 40 GHz ⁵³	R&S [®] FSV40	1321.3008.39	
Signal and spectrum analyzer, 10 Hz to 40 GHz	R&S [®] FSV40	1321.3008.40	
R&S [®] FPS ⁵⁴			
Signal and spectrum analyzer, 10 Hz to 4 GHz	R&S [®] FPS4	1319.2008.04	
Signal and spectrum analyzer, 10 Hz to 7 GHz	R&S [®] FPS7	1319.2008.07	
Signal and spectrum analyzer, 10 Hz to 13.6 GHz	R&S [®] FPS13	1319.2008.13	
Signal and spectrum analyzer, 10 Hz to 30 GHz	R&S [®] FPS30	1319.2008.30	
Signal and spectrum analyzer, 10 Hz to 40 GHz	R&S [®] FPS40	1319.2008.40	
R&S [®] FPL1000		· · · · ·	
Signal and spectrum analyzer, 5 kHz to 3 GHz	R&S [®] FPL1003	1304.0004.03	
Signal and spectrum analyzer, 5 kHz to 7 GHz	R&S [®] FPL1007	1304.0004.07	
R&S [®] FSL ^{55, 56}	1		
Spectrum analyzer, 9 kHz to 3 GHz	R&S [®] FSL3	1300.2502.03	
Spectrum analyzer, 9 kHz to 3 GHz, with tracking generator	R&S [®] FSL3	1300.2502.13	
Spectrum analyzer, 9 kHz to 6 GHz	R&S®FSL6	1300.2502.06	
Spectrum analyzer, 9 kHz to 6 GHz, with tracking generator	R&S®FSL6	1300.2502.16	
Spectrum analyzer, 9 kHz to 18 GHz	R&S®FSL18	1300.2502.18	
Spectrum analyzer, 9 kHz to 18 GHz, with tracking generator	R&S®FSL18	1300.2502.18	

⁴⁹ R&S[®]FSW firmware version 2.21 or higher required.

 $^{^{50}}$ R&S*FSWP-B1 option and R&S*FSWP firmware version 1.20 required.

 $^{^{51}}$ R&S $^{\rm g}{\rm FSVA}$ firmware version 2.30 or higher required.

 $^{^{52}}$ R&S $^{\rm g}{\rm FSV}$ firmware version 2.30 or higher required.

⁵³ Maximum bandwidth 10 MHz.

 $^{^{54}}$ R&S $^{\otimes}\text{FPS}$ firmware version 1.30 or higher required.

 $^{^{55}}$ R&S $^{\rm 8}\text{FSL}$ firmware version 2.40 or higher required.

⁵⁶ Only R&S[®]FSL with motherboard order number 2112.1800.xx supported. Limited option support.

Designation	Туре	Order No.		
R&S [®] ZNL				
Vector network analyzer, two ports, 3 GHz, N	R&S [®] ZNL3	1323.0012K03		
Vector network analyzer, two ports, 6 GHz, N	R&S [®] ZNL6	1323.0012K06		
Oscilloscopes	· · · · · · · · · · · · · · · · · · ·			
R&S®RTP				
Oscilloscope, 4 GHz, 4 channels	R&S [®] RTP044	320.5007.04		
Oscilloscope, 6 GHz, 4 channels	R&S [®] RTP064	320.5007.06		
Oscilloscope, 8 GHz, 4 channels	R&S [®] RTP084	320.5007.08		
Oscilloscope, 13 GHz, 4 channels	R&S [®] RTP134	320.5007.13		
Oscilloscope, 16 GHz, 4 channels	R&S [®] RTP164	320.5007.16		
R&S [®] RTO2000 ^{34, 57}				
Oscilloscope, 600 MHz, 2 channels	R&S [®] RTO2002	1329.7002.02		
Oscilloscope, 600 MHz, 4 channels	R&S [®] RTO2004	1329.7002.04		
Oscilloscope, 1 GHz, 2 channels	R&S [®] RTO2012	1329.7002.12		
Oscilloscope, 1 GHz, 4 channels	R&S [®] RTO2014	1329.7002.14		
Oscilloscope, 2 GHz, 2 channels	R&S [®] RTO2022	1329.7002.22		
Oscilloscope, 2 GHz, 4 channels	R&S [®] RTO2024	1329.7002.24		
Oscilloscope, 3 GHz, 2 channels	R&S [®] RTO2032	1329.7002.32		
Oscilloscope, 3 GHz, 4 channels	R&S [®] RTO2034	1329.7002.34		
Oscilloscope, 4 GHz, 4 channels	R&S®RTO2044	1329.7002.44		
Oscilloscope, 6 GHz, 4 channels	R&S [®] RTO2064	1329.7002.64		
R&S [®] RTO1000 ^{34,58}				
Oscilloscope, 600 MHz	R&S [®] RTO1002	1316.1000.02		
Oscilloscope, 600 MHz	R&S [®] RTO1004	1316.1000.04		
Oscilloscope, 1 GHz	R&S [®] RTO1012	1316.1000.12		
Oscilloscope, 1 GHz	R&S [®] RTO1014	1316.1000.14		
Oscilloscope, 2 GHz	R&S [®] RTO1022	1316.1000.22		
Oscilloscope, 2 GHz	R&S [®] RTO1024	1316.1000.24		
Oscilloscope, 4 GHz	R&S [®] RTO1044	1316.1000.44		
Power sensor	·			
Frequency selective power sensor	R&S [®] NRQ6	1421.3509.02		
I/Q data interface	R&S [®] NRQ6-K1	1421.4705.02		

Available measurement applications

The following table lists the general connectivity and I/Q capture capability of the measurement applications with a listed instrument. For performance values (if applicable), see the corresponding application specific data sheets.

Applications R&S®VSE- Instruments	I/Q	K6	К7	K10	K60 K60C K60H	K70	K72	K91 K91p K91n K91ac K91ax	K96	K100 K102 K104	K106	K144 K146
R&S [®] FSW	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] FSWP ³	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] FSVA3000,	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] FSV3000												
R&S [®] FSVA,	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] FSV												
R&S [®] FPS	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] FPL1000	•	-	•	•	•	•	•	-	•	•	•	•
R&S [®] FSL	•	_	•	•	•	•	•	-	•	•	•	_
R&S [®] ZNL ⁴	•	_	•	•	•	•	•	-	•	•	•	•
R&S [®] RTP	•	•	•	• ³⁵	•	•	• ³⁵	• ³⁵	• ³⁵	• ³⁵	• ³⁵	• ³⁵
R&S [®] RTO1000 ³⁴ ,	•	•	•	•	•	•	•	•	•	•	•	•
R&S [®] RTO2000												
R&S [®] NRQ ⁵⁹	•	•	•	•	•	•	•	•	•	•	•	•

 $^{^{57}}$ R&S $^{\otimes}$ RTO2000 firmware version 3.50.3.1 or higher required.

 $^{^{58}~\}text{R\&S}^{\circledast}\text{RTO1000}$ firmware version 2.51.1.0 or higher required.

⁵⁹ R&S[®]NRQ6-K1 required.

Ordering information

Designation	Туре	Order No. 60
Vector signal explorer	· · · ·	
R&S®VSE basic edition 61, 62	R&S [®] VSE	1345.1011.06
R&S [®] VSE enterprise edition 63	R&S [®] VSE	1345.1105.06
R&S®VSE software maintenance	R&S [®] VSE-SWM	1320.7622.81
Measurement applications		'
Pulse measurement application 57,64	R&S [®] VSE-K6	1320.7516.06
Phased array measurements 63, 64, 65	R&S [®] VSE-K6A	1345.1286.06
AM/FM/PM modulation analysis 63, 64	R&S [®] VSE-K7	1320.7539.06
GSM measurements 63, 64	R&S [®] VSE-K10	1313.1368.06
Transient measurements 63, 64	R&S [®] VSE-K60	1320.7868.06
Transient chirp measurements 63, 64, 66	R&S [®] VSE-K60C	1320.7874.06
Transient hop measurements 63, 64, 66	R&S [®] VSE-K60H	1320.7880.06
Vector signal analysis 63, 64	R&S [®] VSE-K70	1320.7522.06
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For details, see table of supported instruments on page 9

⁶⁰ Floating variant is xxxx.xxx.51 and requires R&S[®]FSPC-FL.

⁶¹ R&S[®]FSPC required.

⁶² Not available for R&S[®]FSPC-FL.

 $^{^{63}}$ R&S $^{\otimes}$ FSPC or R&S $^{\otimes}$ FSPC-FL required.

⁶⁴ R&S[®]VSE basic edition or R&S[®]VSE enterprise edition required.

⁶⁵ R&S[®]VSE-K6 and a supported measurement device required (see R&S[®]VSE-K6 data sheet for list of devices supported with option R&S[®]VSE-K6A).

⁶⁶ R&S[®]VSE-K60 required.

⁶⁷ R&S[®]VSE-K70 required.

⁶⁸ R&S®VSE-K91 required.

⁶⁹ R&S[®]VSE-K100 or R&S[®]VSE-K104 required.

⁷⁰ R&S[®]VSE-K144 required.

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