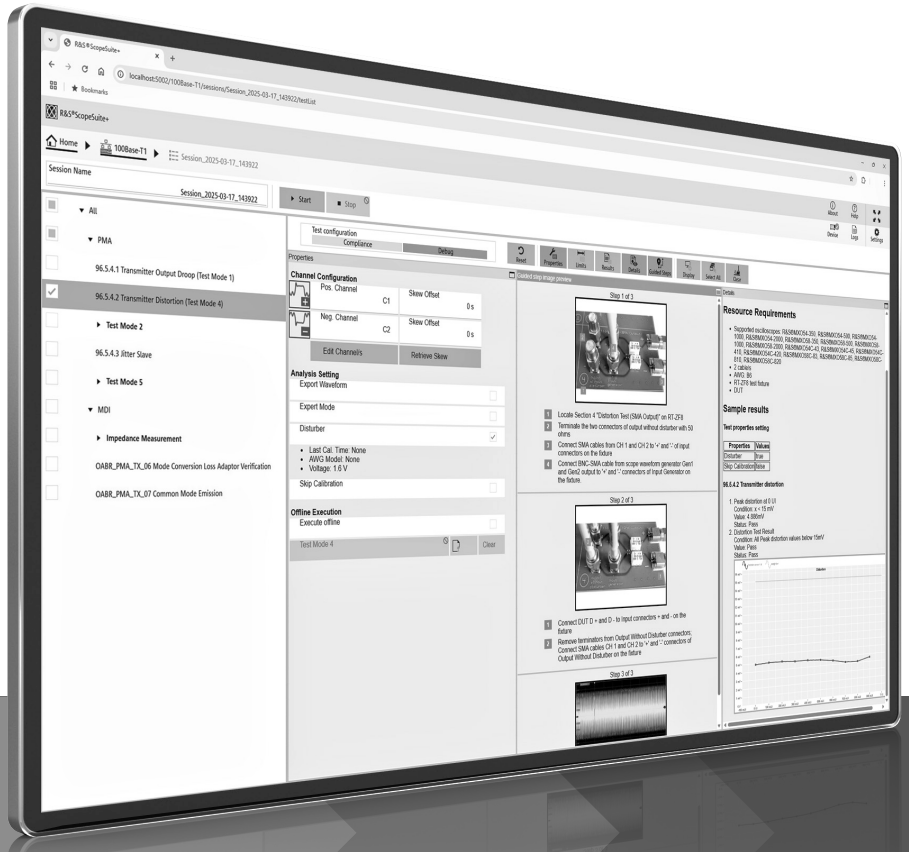
R&S®ScopeSuite+ SOFTWARE

Specifications



Specifications
Version 05.00

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Specifications

R&S®ScopeSuite+ software supports MXO 5/MXO 5C/R&S®RTO2000/R&S®RTO6/R&S®RTP series oscilloscopes.

Minimum system requirements for R&S®ScopeSuite+

Running on a PC

Operating system		Windows 10, 64 bit; Windows 11, 64 bit
RAM		≥ 8 Gbyte
Disk space		≥ 5 Gbyte
Measuring instrument connection		LAN interface

R&S®SPLUS, base option for compliance test

Prerequisites		R&S®ScopeSuite+ base license and system requirements (see Minimum system requirements for R&S®ScopeSuite+)
Software features		
Measurement environment		automated compliance test for high speed digital technologies
User interface		dashboard view of all available standards
		settings panel to connect appropriate instruments
		easy access to the live screen of the connected oscilloscope
Logs		web access to log files that pertain to the software or per test case
Sessions		• add or remove individual test sessions • search for particular test cases • add comments to individual test cases
Reporting		test reports in PDF format
Supported devices		
Oscilloscopes		• MXO 54 • MXO 58 • MXO 54C • MXO 58C • R&S®RTO2000 • R&S®RTO64 • R&S®RTP
Vector network analyzers		• R&S®ZND • R&S®ZNB • R&S®ZNL • R&S®ZNLE
Arbitrary waveform generators		• R&S®MXO5-B6 option • R&S®MXO5C-B6 option • R&S®RTO-B6 option • R&S®RTO6-B6 option • R&S®RTP-B6 option

Options

R&S®SPLUS-K24 100BASE-T1 automotive Ethernet compliance test

This option performs 100BASE-T1 compliance test measurements with R&S®ScopeSuite+. The software supports the R&S®RT-ZF8 Ethernet compliance test fixtures. The chapters after the test cases refer to IEEE 802.3-2022 and OPEN Alliance ECU specification version 3.0.

Supported 100BASE-T1 compliance tests		
Standard reference		IEEE 802.3-2022
		OPEN Alliance ECU specification 3.0
100BASE-T1		transmitter output droop (96.5.4.1)
		transmitter distortion with and without disturber (96.5.4.2)
		transmitter timing jitter master mode (96.5.4.3)
		transmitter timing jitter slave mode (96.5.4.3)
		transmitter power spectral density (96.5.4.4)
		transmitter clock frequency (96.5.4.5)
		transmitter peak differential output (96.5.6)
		MDI return loss (96.7.1.3)
		MDI mode conversion loss (96.8.2.2)
		MDI mode conversion loss adapter verification (OABR_PMA_TX_06)
		MDI common mode emission (OABR_PMA_TX_07)

R&S®SPLUS-K89 10BASE-T1S automotive Ethernet compliance test

This option performs 10BASE-T1S compliance test measurements with R&S®ScopeSuite+. The software supports the R&S®RT-ZF8 and R&S®RT-ZF7A Ethernet compliance test fixtures. The chapters after the test cases refer to IEEE 802.3-2022 and Open Alliance 10BASE-T1S PMA Test Suite v.1.0.

Supported 10BASE-T1S compliance tests		
Standard reference		IEEE 802.3-2022
		Open Alliance 10BASE-T1S PMA Test Suite v.1.0
10BASE-T1S		transmitter output voltage (147.5.4.1)
		transmitter output droop (147.5.4.2)
		transmitter timing jitter (147.5.4.3)
		transmitter power spectral density (147.5.4.4)
		rise and fall time for transmitter (6.3.2.2)
		transmitter high impedance mode (147.5.4.5)

R&S®SPLUS-K87 1000BASE-T1 automotive Ethernet compliance test

This option performs 1000BASE-T1 compliance test measurements with R&S®ScopeSuite+. The software supports the R&S®RT-ZF8 Ethernet compliance test fixtures. OA refers to Open Alliance 1000BASE-T1 PMA Test Suite Specification V 1.3.

Supported 1000BASE-T1 compliance tests		
Standard reference		IEEE 802.3-2022
		Open Alliance 1000BASE-T1 PMA Test Suite Specification V 1.3
1000BASE-T1		OA 97.1.1 transmitter output droop
		OA 97.1.2 transmitter distortion
		OA 97.1.3 transmitter timing jitter master
		OA 97.1.3 transmitter timing jitter slave
		OA 97.1.3 MDI transmitter timing jitter
		OA 97.1.4 transmitter power spectral density and power level
		OA 97.1.5 transmitter peak differential output
		OA 97.1.6 transmit clock frequence
		OA 97.1.7 transmitter link sync pulse amplitude master
		OA 97.1.7 transmitter link sync pulse amplitude slave
		OA 97.3.1 MDI return loss
		OA 97.3.2 MDI mode conversion loss

R&S®SPLUS-K105 ASA compliance test

This option performs ASA compliance test measurements with R&S®ScopeSuite+. The tests are performed according to the ASA PMA Electrical CTS Draft V0.21 Specification of the Automotive SerDes Alliance.

Supported ASA compliance tests		
Standard reference		ASA PMA Electrical CTS Draft V0.21 Specification of the Automotive SerDes Alliance
ASA	SG1 required bandwidth 4 GHz, SG2 required bandwidth 8 GHz, SG3 required bandwidth 16 GHz, SG4 required bandwidth 12 GHz, SG5 required bandwidth 16 GHz VNA required bandwidth from 5 MHz to 5 GHz	5.1.1 ASA_TPMA_TX_01 transmitter SNDR
		5.1.2 ASA_TPMA_TX_02 transmitter droop
		5.1.3 ASA_TPMA_TX_03 transmitter power spectral density and power level
		5.1.4 ASA_TPMA_TX_04 transmitter short-term clock phase stability
		5.1.5 ASA_TPMA_TX_05 transmitter disabled
		5.1.6 ASA_TPMA_TX_06 transmitter clock precision
		6.1. ASA_EPMA_MDI_01 MDI return loss

R&S®SPLUS-K107 GMSL compliance test

This option performs GMSL compliance test measurements with R&S®ScopeSuite+. The tests are performed according to the GMSL2 Compliance Test Specification and the OpenGMSL3 Specification documents. The exact revision is marked in the ScopeSuite+ software.

Supported GMSL compliance tests		
Standard reference		GMSL2 Compliance Test Specification OpenGMSL3 Specification
GMSL		7.1.1 6 Gbps single-ended TX eye mask
		7.1.2 6 Gbps differential TX eye mask
		7.1.3 3 Gbps single-ended TX eye mask
		7.1.4 3 Gbps differential TX eye mask
		7.1.5 narrowband crosstalk limit

R&S®SPLUS-K99 remote automation API

The option is used in combination with R&S®ScopeSuite+ software and the relevant compliance test options. R&S®SPLUS-K99 makes it possible to automate the supported compliance options remotely. After remote execution of a test case, the user can collect the results to process them in a proprietary software to create own reports.

Remote API to execute test cases of R&S®ScopeSuite+		
API language		Python

Ordering information

Designation	Type	Order No.
R&S®ScopeSuite+, base option	R&S®SPLUS	1804.8800.02
R&S®ScopeSuite+, 100BASE-T1 automotive Ethernet compliance test	R&S®SPLUS-K24	1804.8774.02
R&S®ScopeSuite+, 1000BASE-T1 compliance	R&S®SPLUS-K87	1804.8797.02
R&S®ScopeSuite+, 10BASE-T1S automotive Ethernet compliance test	R&S®SPLUS-K89	1804.8780.02
R&S®ScopeSuite+, ASA compliance	R&S®SPLUS-K105	1804.8951.02
R&S®ScopeSuite+, GMSL compliance	R&S®SPLUS-K107	1804.8968.02
R&S®ScopeSuite+, remote automation API	R&S®SPLUS-K99	1804.8945.02

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