

Automate testing of your infotainment systems

Assure the quality of your infotainment components during the development phase



The R&S®TS6110 in a typical test system configuration with three R&S®SFE100 generators.

Your task

You develop consumer electronics or infotainment components such as radios, CD players, navigation devices or phones, which you have to test either individually or in combination?

You perform extensive tests that cover carrier frequency as well as demodulated analog and digital baseband data of all common modulation types?

You have to ensure a constant receive quality in all used RF, VHF and UHF frequency ranges and also for various digital transmission protocols as such DAB, SDARS and HD radio?

Measurements with changing test setups are often costly and time-consuming. Generating protocols can also be a time-consuming and particularly error-prone task, and reproducibility of test results is difficult to ensure when performing tests manually.

T&M solution

Automatic measurement sequences

The R&S®TS6110 lets you combine all required T&M equipment in a single 19" rack. Using the integrated R&S®CRTA02 test adapter, you can perform all necessary tests automatically in any order and number without having to change the test setup.

Modular design

The modular system can be adapted to your test requirements. The core is the R&S®ICS04 control software, which allows you to generate individual measurements and automatic test sequences.

The control software is complemented by measurement modules, allowing you to tailor the test system to your individual needs.

Documentation of test results

Each measurement is recorded in detail. For all measurements, you can set limits and limit curves, which are automatically analyzed.

You can print out the protocol on any standard printer. All test results and settings are available in Excel format. The graphs can be transferred to Office documents in Windows Metafile format.

Reproducibility

The test sequences contain all relevant system settings and can therefore be repeated at any time, making the test results traceable and reproducible.

See also:

www.rohde-schwarz.com/product/TS6110

For production:

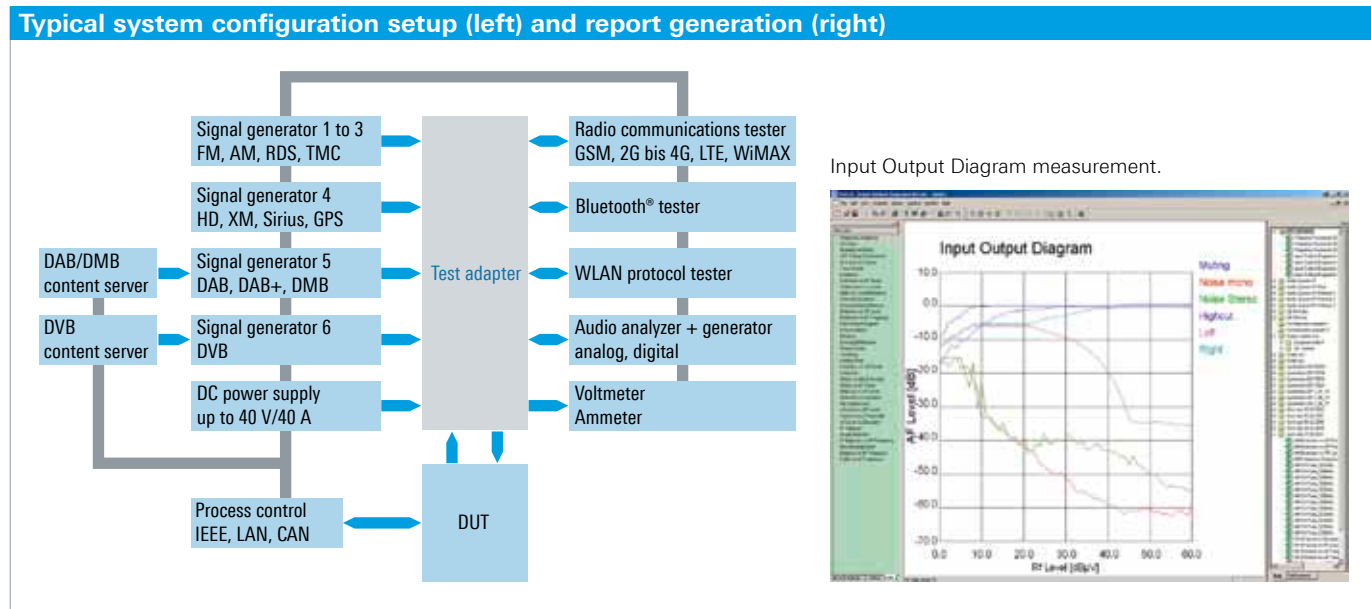
R&S® ATSI100 infotainment test system

www.rohde-schwarz.com/product/ATSI100

Multichannel FM car radio solution (see downloads)

www.rohde-schwarz.com/product/UPP

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Components of a typical R&S®TS6110 infotainment analysis system in a 19" rack

Designation	Type	Number
Host PC with control software	R&S®ICS04	1
GSM tester	R&S®CMU or R&S®CMW	1
Test adapter	R&S®CRTA02	1
Signal generators, stereo and RDS coder	R&S®SFE100 or R&S®SMB100A	3
Audio analyzer	R&S®UPV	1
Line filter	LTE2	1
Power supply	R&S®NGPE	1

Functionality of the R&S®TS6110 infotainment analysis system (further measurement modules on request)

Analog	Digital	Mobile radio	Audio	Miscellaneous
FM	DAB, DAB+, DMB	Navigation	Amplifier	Climatic test chamber control
AM (MW, LW, KW)	HD	GPS	CD	Power and voltage measurement
RDS	SDARS XM	GSM, G2, G3, G4	CR	CAN bus control
TMC	SDARS SIRIUS	LTE	MP3	MOST bus control
	TPEG	ITS	Auxiliaries	Customer-specific adaptations
	TMC	Bluetooth, WLAN	MOST	

Rohde & Schwarz GmbH & Co. KG

Europe, Africa, Middle East +49 89 4129 123 45

customersupport@rohde-schwarz.com

North America 1 888 TEST RSA (1 888 837 8772)

customer.support@rsa.rohde-schwarz.com

Latin America +1 410 910 7988 | customersupport.la@rohde-schwarz.com

Asia/Pacific +65 65 13 04 88 | customersupport.asia@rohde-schwarz.com

www.rohde-schwarz.com

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