

ROHDE & SCHWARZ

Make ideas real



R&S® TS9981M A&D RADIATED IMMUNITY TEST SYSTEM

Solution brief

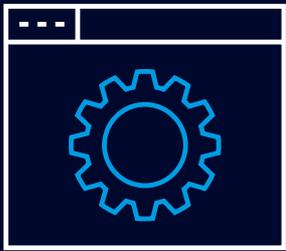


EMC SYSTEM SOLUTIONS

THE RIGHT SYSTEM FOR YOUR REQUIREMENTS

Whether you're looking for small precompliance test systems or large, fully automated setups, Rohde&Schwarz provides tailored solutions to fit your specific needs. As an industry leader in EMI test receivers, test software and broadband amplifiers, Rohde&Schwarz has all core components needed to assemble a complete system. Moreover, we have extensive experience in the design and development of EMC test systems and entire EMC test facilities, worldwide. This, combined with the active participation in EMC standards organizations, makes Rohde&Schwarz your ideal EMC system solution provider.

KEY BENEFITS



ALL-IN-ONE SOLUTION

Rohde&Schwarz takes on system responsibility, ensuring compliance with current standards and compatibility with your existing test equipment. Our industry collaborations with key suppliers of chambers, transient equipment and other components enable a true turnkey solution.



SYSTEM DEFINITION

Our tailored system design, from concept to implementation, is built on a modular framework that enables future upgrades. All core instruments come from Rohde&Schwarz. Additionally, the system design is optimized, including optimized RF cable lengths.



SYSTEM INTEGRATION

Commissioning, acceptance testing, and professional training are conducted by our highly experienced Rohde&Schwarz engineers. Moreover, we provide equipment or services for UFA (Uniform Field Area) level setting.



SERVICE & SUPPORT

Rely on Rohde&Schwarz EMC System Service Level Agreements (SLA) to make sure your system meets your requirements from the day you go live and onwards throughout the system lifecycle.

A&D RADIATED IMMUNITY TEST SYSTEM R&S®TS9981M

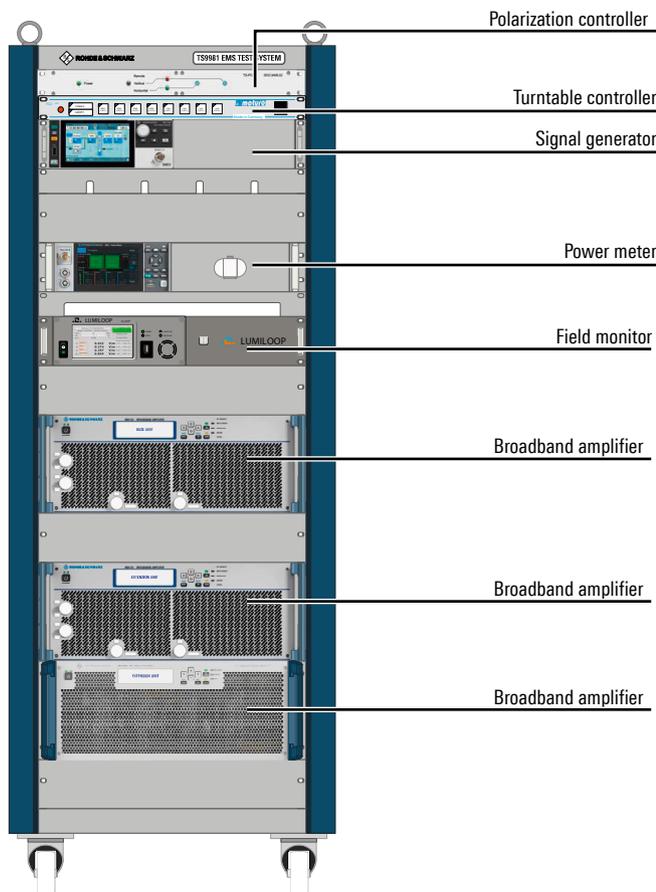
IMMUNITY TESTING OF AEROSPACE AND DEFENSE COMPONENTS

Compliance with the relevant A&D standards helps to ensure the EMC of systems, subsystems, electrical and electronic components with the electromagnetic environment. The R&S®TS9981M aerospace and defense radiated immunity test system is a typical system solution to achieve field strengths as defined by applicable standards for the frequency range from 2 MHz to 18 GHz. All core instruments are available with accredited calibration.

System specifications in brief

Parameter	Specifications
Applicable standards	MIL-STD-461G, RTCA DO-160G, ECSS, AIAA S-121A, NASA GSFC-STD-7000, AECTP 500, and GJB151C
Field strength full range	up to 200 V/m
Frequency range	2 MHz to 18 GHz
Test distance	1 m
Modulation	CW, AM, PM

Example of a rack layout, with optional equipment



Scope of Delivery

This table outlines typical system components for the R&S®TS9981M, including optional extensions and accessories. For additional information or inquiries, please reach out to us.

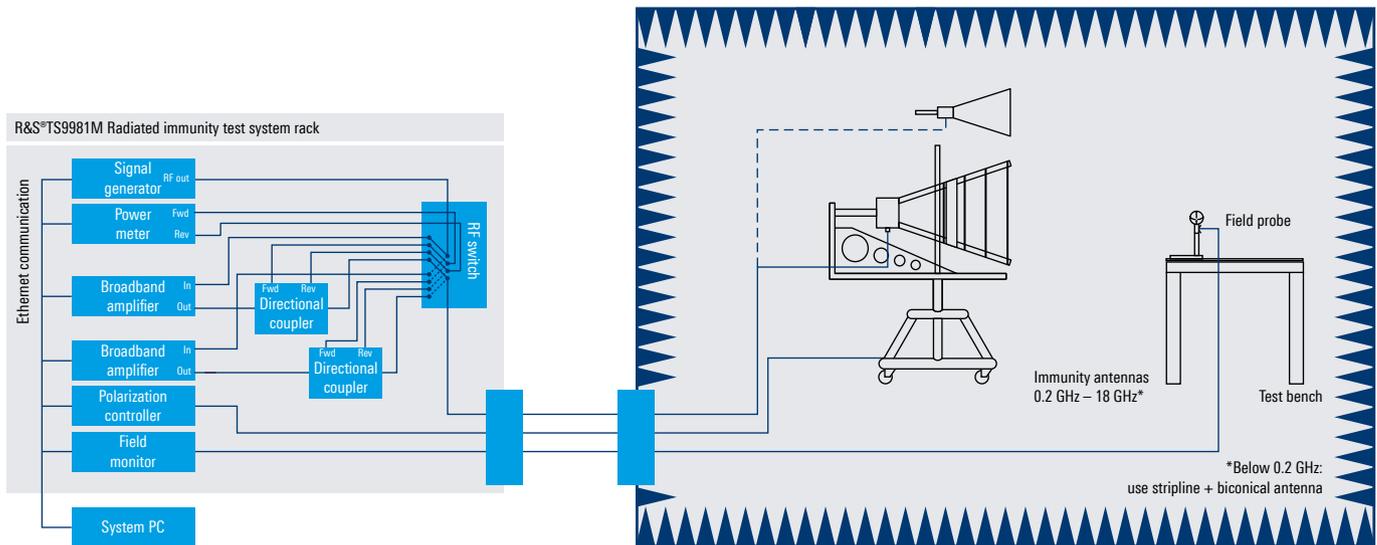
Essential system components from Rohde & Schwarz	Specifications
Signal generator	Up to 20 GHz including modulation options
Broadband amplifier system	9 kHz to 18 GHz with internal or external directional coupler, amplifier input, forward and reverse power switching, and high-power switching
High-performance immunity antenna set	2 MHz to 18 GHz
Antenna mast	with automated pneumatic polarization
Forward and reverse power monitoring system	
R&S®ELEKTRA Test system software	
Site specific interconnecting cables	
Tailored system documentation	
Commissioning, acceptance testing, and training	

Recommended system components, accessories and extensions from Rohde & Schwarz

- Adaptation to customer specific requirements, e.g. field strength, frequency range, user specified modulation, etc.
- R&S®ADVISE basic visual EUT monitoring system
- Test system PC bundle
- System extension for conducted immunity testing in line applicable standards including MIL-STD-461G, CS114
- BCI test accessories kit "MIL-STD-461"

A&D RADIATED IMMUNITY TEST SYSTEM

A simplified RF block diagram of the R&S®TS9981M from 2 MHz to 1 GHz



SERVICES AND SUPPORT

Rohde&Schwarz offers customers reliable, local service to ensure optimal system reliability. We support you through all phases of the system life cycle and stand by you with an extensive and constantly growing portfolio of services that can be tailored to your specific needs.

Keep your system running seamlessly with Operational Services from Rohde&Schwarz, which include Calibration, Software Maintenance, Technical Support and Preventive Maintenance. Minimize interruptions in case of unplanned events and stay up-to-date with the latest standards using Rohde&Schwarz Availability Services which cover Repair, System Upgrade, Training and Application Engineering support – the service level choice is yours.

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