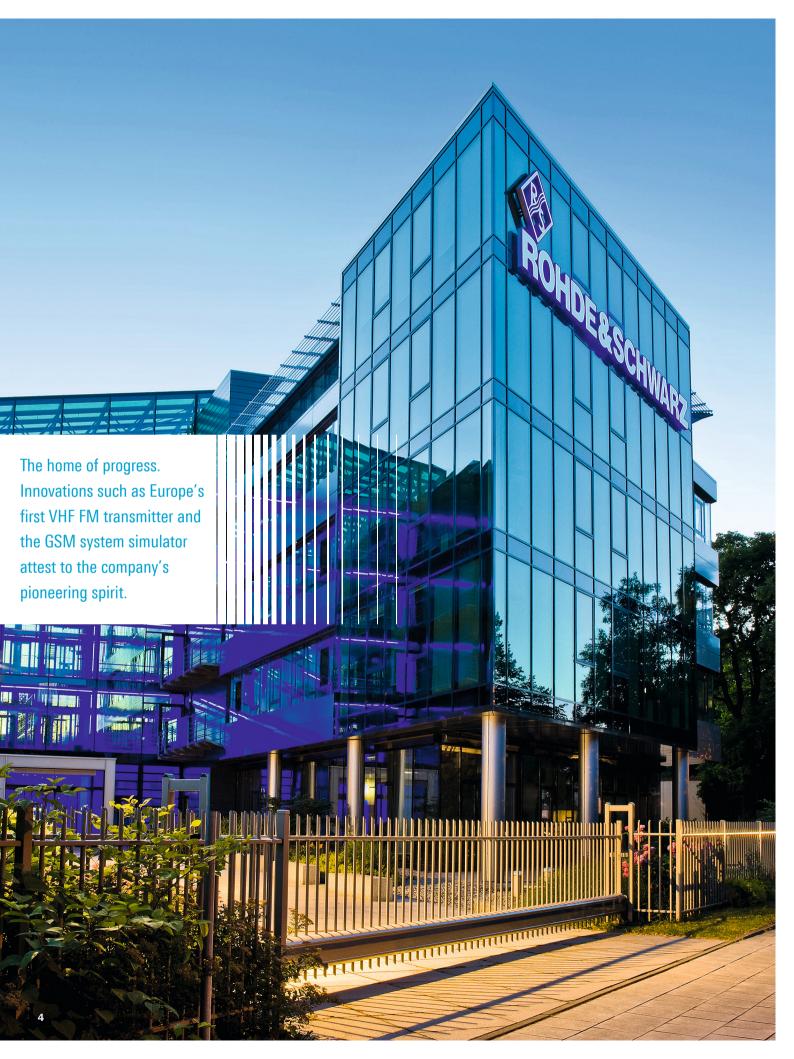


Rohde & Schwarz is one of the world's leading manufacturers of electronic test and measurement and communications equipment.

From the very beginning Rohde & Schwarz has driven innovation in RF technology. We have always taken up the challenge of pushing the limits of what is technically feasible. Today, as in the past, we aim to provide our customers with the market's highest-performance solutions for their applications.

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Driving innovation

Rohde & Schwarz is a high-tech company that thrives on innovation and the quality of its products. Around 15 percent of our annual net revenue goes into research and development, so that we can offer customers future-oriented products. Rohde & Schwarz keeps virtually the entire value added chain in-house. Our core competencies include the development and production of microwave modules and the large-scale integration of test and measurement and communications components.

Central R&D is based at company headquarters in Munich. Our other R&D centers are located throughout Germany as well as in the USA, Singapore, China, Korea, Denmark, France, Great Britain, Romania and Switzerland. Rohde & Schwarz products are manufactured in our own facilities so that we can ensure the high product quality that customers have always associated with Rohde & Schwarz.

Membership in international standardization bodies gives us advanced knowledge of upcoming trends and requirements so that our customers can rest assured that our solutions are ready for the future.

Industry-leading know-how and in-depth development expertise at Rohde&Schwarz result in a constant stream of products at the cutting edge of technical feasibility, such as the new R&S*RTO family of oscilloscopes designed with our own high-performance chips.



Enabling a wireless world

Wireless communications

We are the leading supplier of test and measurement equipment for the wireless communications industry. Our solutions smooth the way to 5G and a converged wireless world. All major developers and manufacturers of wireless devices and associated components rely on Rohde & Schwarz measuring instruments and systems.

Electronics industry

Rohde & Schwarz test and measurement equipment plays a key role in the development and production of electronic products of all kinds. Our EMC T&M equipment helps manufacturers ensure that their products are disturbance-free and electromagnetically compatible with their surroundings.

Broadcast and media

As a partner of network operators, broadcasters, studios and consumer electronics manufacturers, we serve the entire transmission chain for audiovisual media with our technologically leading transmitters, audio/video headends, post production and T&M solutions.

Aerospace and defense

Our solutions for secure radiocommunications, radiomonitoring and test and measurement support all branches of the armed forces in fulfilling their missions and help keep aviation safe.

Critical communications and IT infrastructures

Governments and official authorities rely on our instruments and systems for secure communications and radiomonitoring. Our IT security solutions protect industry against intellectual property espionage and cyber attacks.

Committed to sustainability

As an independent, privately owned company, Rohde & Schwarz can plan in the long run without having to think in terms of quarters. The resulting entrepreneurial freedom allows us to orient all our business processes toward sustainability, from product planning and employee loyalty to a trusting partnership with our customers. Continuity and innovative creativity are not in conflict, but are inspiring key elements of the Rohde & Schwarz culture, whose stimulating mix drives our employees to achieve the exceptional. We not only encourage new approaches and ways of thinking, we also give our developers the freedom to reach for the previously unthinkable solutions that revolutionize the market and bring our customers sustained benefit. Respect for each individual employee, self-responsibility and open, flat organizational structures shape our corporate culture and ensure fast, unbureaucratic decision-making – advantages that benefit our customers to the full. For many years, top rankings in leading surveys have proven the company's attractiveness as an employer, helping us recruit top industry talent.

Rohde & Schwarz has always placed great emphasis on environmental awareness and protection. Our manufacturing processes and materials meet the highest requirements for energy efficiency and environmental performance.





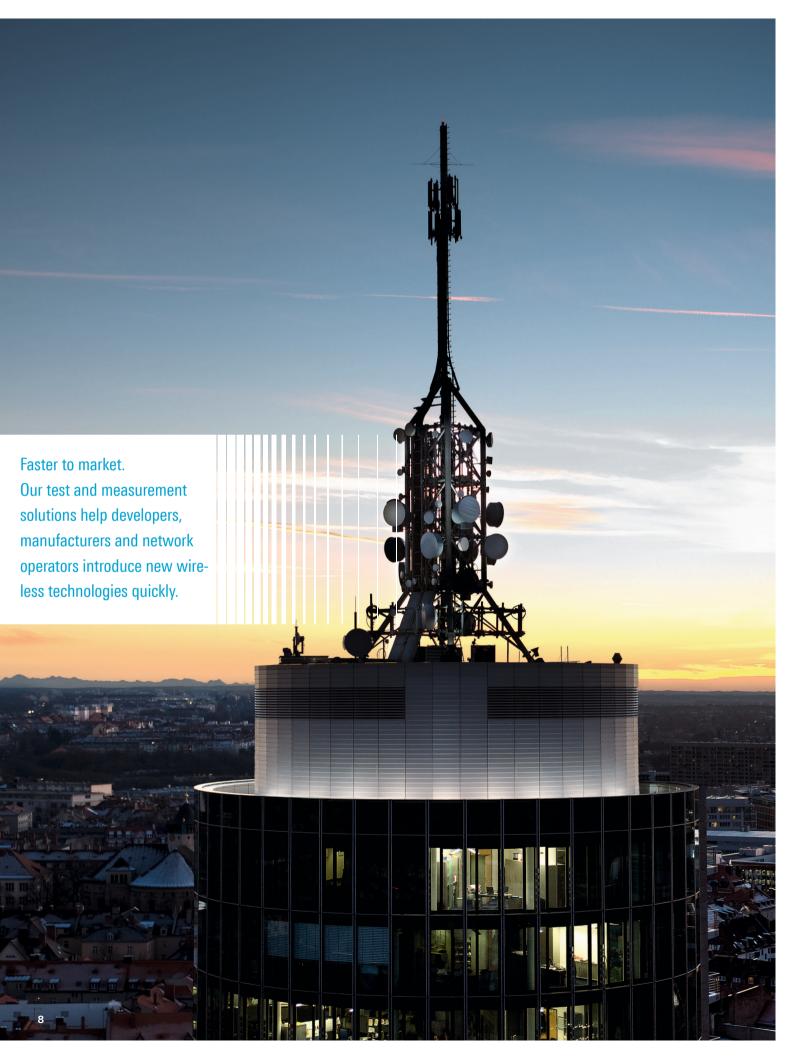




The home of creativity. The campus-like setting of our Munich headquarters helps ideas develop into products that set standards worldwide.







Wireless communications

Wireless devices may seem commonplace, but the technology behind them is extremely complex and sophisticated. Rohde&Schwarz test and measurement solutions make it possible to master this complexity and help everything function smoothly - from the standardization of new processes, product design and production to the integration of new technologies into network operation, including monitoring and optimization. Since the development of the GSM system simulator in the late 1980s, our measuring instruments and systems have repeatedly set industry standards.

We supply test and measurement solutions for all current wireless communications technologies such as GSM, WCDMA, CDMA2000®, TD-SCDMA, LTE, WLAN and Bluetooth®, as well as for high-performance standards such as LTE-Advanced or the fifth generation of mobile radio (5G).

Our products help all market players - chip designers, consumer equipment and infrastructure suppliers, network operators, test houses – introduce innovations efficiently and economically. Thanks to our technological contributions, investments in new processes can pay off and developments can be brought to market faster.

Always in touch. A base station must be able to serve all subscribers in its coverage area simultaneously and interference-free 24/7. Installation and maintenance



Test passed. Every smartphone contains multiple wireless technologies in a minimum of space. To ensure proper functioning, every phone is calibrated and tested in the factory - ideally using Rohde & Schwarz radiocommunications testers





Electronics industry

Electronics have become an integral part of our lives, as standalone consumer and communications electronics devices and as hidden components in vehicles, homes and industry. Electronics development and production are impossible without test and measurement equipment, especially when it comes to RF technologies. Rohde & Schwarz test and measurement solutions are in demand worldwide wherever signals must be generated or analyzed in labs or production, from the audio range up to the highest microwave frequencies.

Consumer electronics manufacturers, automotive manufacturers and many other industries use Rohde & Schwarz products to bring their innovations to market on time and in line with specifications.

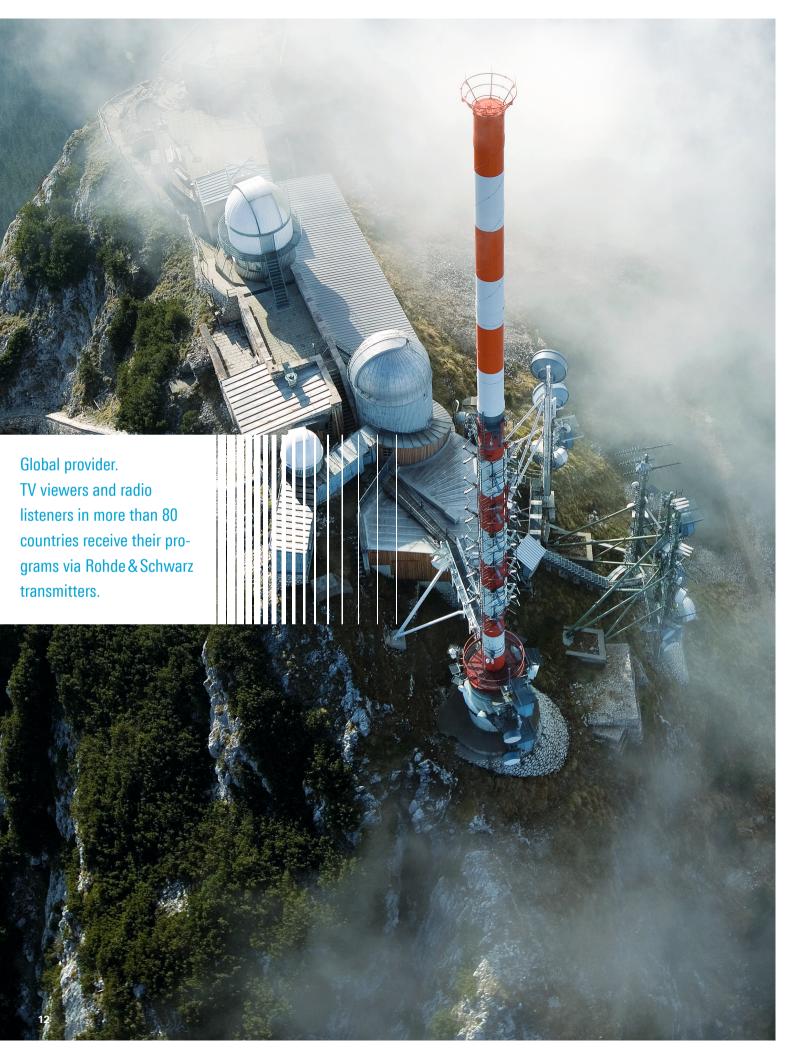
An important aspect of product design is the need to meet electro-magnetic compatibility (EMC) requirements for legal and functional reasons. Rohde & Schwarz is the market leader in this special field and offers a complete EMC test portfolio, from standalone devices to turnkey test chambers.

Nano trend. More and more RF components are designed as chips so that testing can be done directly on the wafer.



Eliminating disturbance.
We equip test chambers with complete systems for measuring electromagnetic compatibility.





Broadcast and media

The digitization of the media world has revolutionized audio and video broadcasting. Today, the entire transmission chain is digital - from production to the studio, from the transmitter and the consumer – a development that Rohde & Schwarz supported right from the start with pilot projects and reference solutions. Today, we are the market leader and equip complete networks around the world with transmitters for all power classes and standards, including UltraHD (4K). We also offer the test and measurement equipment needed to install, maintain and monitor broadcasting networks. In the studio, our headends process audio/video transport streams and feed them into distribution networks for terrestrial broadcasting or transmission via cable, satellite or Internet.

Consumer electronics manufacturers use our broadcast and audio/video T&M equipment to develop and manufacture set-top boxes, displays and mobile devices. Our customers benefit from our future-ready multistandard approach and the high performance of our instruments and systems.

Network operators and the consumer electronics industry are not the only ones who benefit from Rohde&Schwarz solutions. Film and TV studios also rely on our expertise. Almost all Hollywood blockbusters are produced using our video processing systems. Broadcasters base their post production workflow on our servers and storage solutions.

Productive. Our audio/video and broadcast T&M equipment is used worldwide for developing and producing consumer electronics.









Aerospace and defense

No field places higher requirements on technical performance and reliability than aerospace and defense. Rohde & Schwarz offers products from different business fields to meet the demanding requirements of this market, and equips armed forces, suppliers and government authorities with radiocommunications and RF engineering solutions.

We supply state-of-the-art radiocommunications systems to ground, air and naval forces. Our solutions are software defined, interoperable and have crypto protection to the highest classification levels.

The communications, navigation, radar and electronics supply industries need powerful test and measurement equipment. Our portfolio includes numerous products optimized for this target group.

Radio systems for air traffic control (ATC) must reliably handle the steadily increasing volume of air traffic. We equip airports and ATC centers with complete ground-air communications systems.

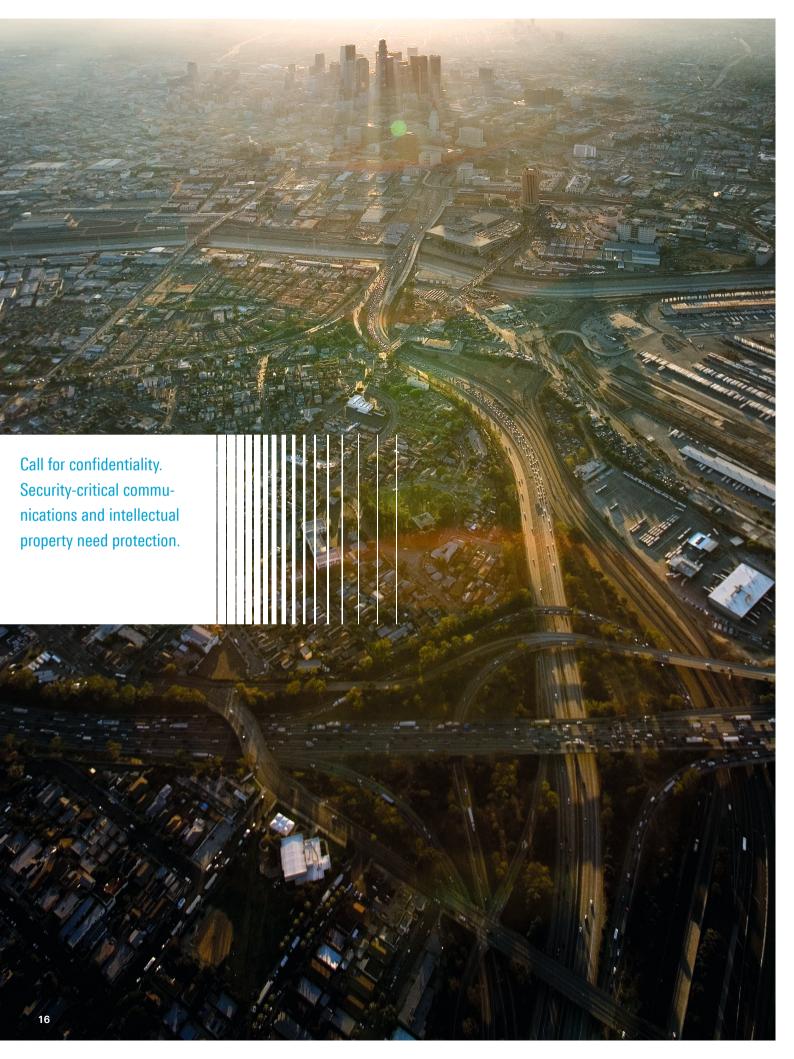
Rohde & Schwarz is also a prime supplier of equipment for the detection, location and analysis of radio-communications signals. Our systems cover the entire scope, from satellite monitoring to IP data stream analysis.

Information superiority. On land, at sea and in the air, our radio systems ensure reliable, secure communications.



Aviation safety. Rohde & Schwarz systems keep controller and cockpit in touch at over 200 airports and ATC centers around the world.





Critical communications and IT infrastructures

In times of increasing threats due to espionage and electronic eavesdropping, it is vital that government-grade communications remain confidential at all times. This is why governments, ministries, embassies and authorities use high-security crypto solutions from Rohde&Schwarz for wireless and wireline communications.

However, not only government-grade communications must be secure. Infrastructures such as traffic networks or power plants with their security-critical closed-loop and open-loop control systems also need protection. Our crypto and IT security technology shields them from unauthorized access.

Industrial espionage annually causes worldwide damage in the hundreds of billions. Rohde & Schwarz products reliably protect customers against attacks from the Internet and against tapping of sensitive communications.

Regulatory authorities use mobile and stationary radiomonitoring systems from Rohde & Schwarz to efficiently manage the frequencies assigned to radio and broadcasting services and to monitor their legally correct, standard-compliant use.

Indispensable firewalls. Data centers manage the intellectual property of a company and therefore require comprehensive, reliable protection against cyber attacks



Operational security. Rohde & Schwarz crypto products reliably protect widespread infrastructures such as railroad networks with their security-critical signaling and interlocking equipment against manipulation.

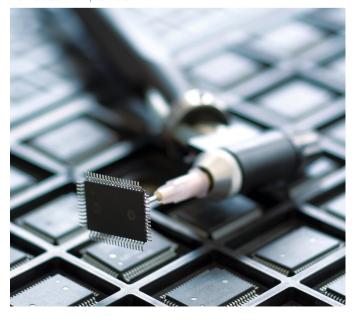


Service and support

With a dedicated, global service network and 24-hour availability, Rohde & Schwarz offers its customers comprehensive support worldwide. Support offerings range from detailed consultation before, during and after purchase to application support, calibration services, product upgrades, seminars and custom-configured training courses. We attach great value to the technical expertise of our local sales engineers, who answer customer questions personally and in detail.

Rohde & Schwarz products are used in demanding applications where reliability is as important as accuracy. High equipment availability is vital in production for ensuring continuous profitable operation. Our services

Investment protection. Ample component stocks ensure the long-term serviceability of Rohde & Schwarz products.



are designed to maintain both high availability and high accuracy in the long term in order to protect our customers' investments. Services include globally accessible, high-end calibration routines to allow on-site calibration, as well as product maintenance measures in the form of updates or upgrades. Most of our equipment is platform-based to allow adaptation to changed requirements and new technologies even after years of use.

Our service offerings flexibly meet specific user requirements. On request we develop service strategies in close cooperation with our customers to optimally cater for their needs. Sustained customer benefit is paramount to us.

High tech on site. Our service centers use the latest equipment for calibrating and maintaining Rohde&Schwarz instruments and systems.







- Customized and flexible
- Uncompromising quality
- Long-term dependability



Technological milestones ...

Great stories often have very modest beginnings. In 1932, Dr. Lothar Rohde and Dr. Hermann Schwarz developed their first measuring instrument. Just one year later, they founded Rohde & Schwarz. Because the company has always strived for technical perfection, it can boast numerous pioneering achievements from the past till today.

IC testing, 1967 Europe's first automatic IC test system

Chronometry, 1938 World's first portable crystal clock



Broadcasting, 1949Europe's first VHF FM transmitter



Network analysis, 1950 World's first vector network analyzer





... and today's leading-edge solutions



Wireless communications T&M

R&S°CMW 500 Universal test platform for all common mobile and wireless technologies



Oscilloscopes

R&S®RTO
Fastest oscilloscope
on the market, with the
world's first digital trigger



Spectrum analysis

R&S°FSW Innovative signal and spectrum analyzer with cutting-edge performance and exceptional ease of operation



Security scanners

R&S®QPS200 Latest generation microwave scanners for security-critical applications

Radio test and



1982



Mobile radio, 1990







Radiocommunications

R&S®SDTR Military radio based on state-of-the-art software defined radio (SDR) technology



Radiomonitoring

R&S®ESMD

Compact high-performance receiver for all radiomonitoring tasks



Cryptography

R&S®SITLine ETH40G Fastest Ethernet encryptor on the market, with up to 40 Gbit/s



Film production

CLIPSTER®

Leading realtime digital intermediate system for processing RAW video files up to 4K resolution

Worldwide presence www.sales.rohde-schwarz.com

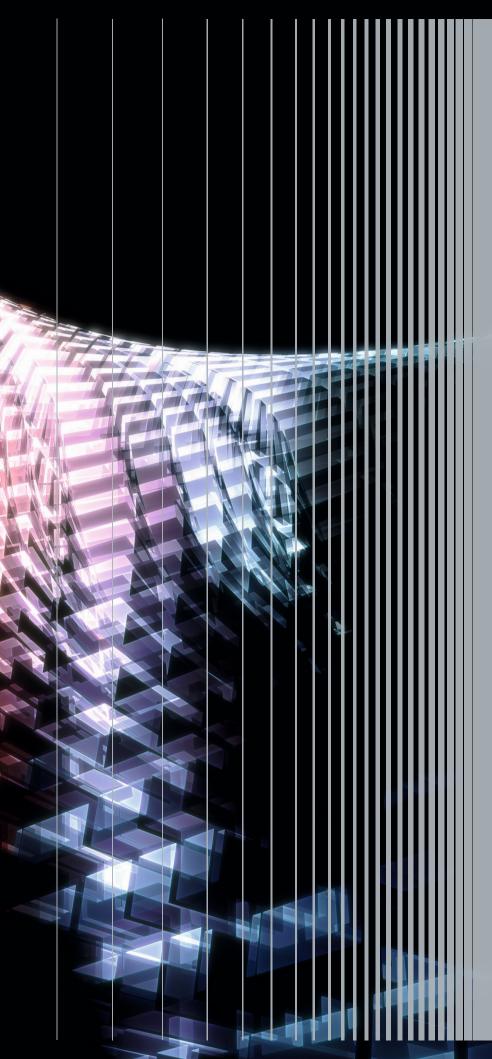
To be close to our customers, we have a sales and service network with subsidiaries and offices in more than 70 countries.







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