

Service at Rohde & Schwarz
You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trail-blazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

More Rohde & Schwarz certificates



Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support



R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG
Trade names are trademarks of the owners
PD 3673.3633.32 | Version 01.00 | May 2026
NEMACS – Enabling connectivity within the combat cloud
Data without tolerance limits is not binding | Subject to change
© 2026 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany

ROHDE & SCHWARZ

Make ideas real



NEMACS

ENABLING CONNECTIVITY WITHIN THE COMBAT CLOUD



INTRODUCING NEMACS – MULTI-DOMAIN DIRECTIONAL COMMUNICATIONS

Modern battlefields increasingly rely on uncrewed aerial, ground and maritime platforms with sensors and other capabilities, acquiring valuable data from privileged locations. Sharing this data enables faster, better-informed decisions and mission success.

These platforms must therefore be well **connected in a joint communications network**. In order to survive in contested, jam-heavy environments, a network with **high bandwidth, long-range links** that operates

stealthily and with low probability of interception and detection (LPI/LPD) is required.

Rohde&Schwarz introduces NEMACS, the comprehensive communications subsystem. NEMACS meets these demands with **secure directional multilink networking** that prioritizes data traffic, encrypts communications and supports **seamless crewed-uncrewed teaming** across the air, land, sea and space domains.

NEMACS – NETWORKED MULTIPOINT ARRAY COMMUNICATIONS SYSTEM

NEMACS offers wide use of the electromagnetic spectrum through several data links in different frequencies, managed and routed by a communications management suite (CoMS).

COMMUNICATIONS MANAGEMENT SUITE (COMS)

- ▶ Autonomously manages and prioritizes data traffic across multiple links
- ▶ Ensures secure, encrypted communications (multilevel security)
- ▶ Enables seamless IP interoperability across all platforms

DIRECTIONAL DATA LINKS

- ▶ Integrated with existing communications (VHF/UHF, Link 16, etc.) in different frequency ranges (C band, Kx band, SATCOM, etc.)
- ▶ Directional beams and new waveforms provide reliable high-throughput covert communications with excellent anti-jamming performance

OPERATIONAL ADVANTAGES



Reliability and survivability

Stay connected and ensure survivability in contested environments with **secure low-signature links** that remain resilient under jamming.



Mission continuity

Operate in a **robust mesh network** with redundant routing; no single point of failure.



Accelerated decision-making

Deliver high-throughput data in real time for **enhanced situational awareness** and faster targeting, coordination and response.



Scalability and interoperability

Scale across missions and platforms, adapting to changing requirements while **integrating new systems without disruption**; ensure **secure interoperability** with existing platforms.



We support the integration of NEMACS into your platform and system architecture. Contact us to learn more!

KEY FEATURES



Active electronically steered antenna (AESA) technology provides rapid directional beam steering toward any receiver or transmitter, maintaining stable links at speeds above Mach 4.



Field-programmable waveforms enable rapid upgrades in a software defined architecture.



Low-observable, conformal antennas integrated into the fuselage of platforms of all sizes deliver scalability and full customization.



ITAR-free to ensure sovereign capability without external dependencies while allowing mission-specific customization.