R&S®MOBILE SATURN SECURE COMMUNICATIONS SOLUTION

Portable communications system with SATURN waveform

Product Brochure
Version 01.00

ROHDE & SCHWARZ

Make ideas real

AT A GLANCE

The R&S®Mobile SATURN Secure Communications Solution is a portable system-ready solution to provide a communications system with NATO encryption and the SATURN waveform.

Secure and robust solution

The system is a unique, comprehensive solution to establish communication with NATO partners. The mobile solution supports encrypted communications and provides the SATURN waveform. The solution represents a rapid deployable communications system for operations across the armed forces at various sites.

The mobile setup comes with two cases: one for the Rohde & Schwarz communications devices and one for the antenna and other accessories such as cabling and a mast with tripod. This ensures the system can easily be prepared for operation in just a few minutes.

Radio

The R&S®M3SR Series4400 radio fulfills the latest civil and military communications requirements and is used for a wide range of applications. The radio covers civil air traffic control, maritime and NATO waveforms such as SATURN and HAVE QUICK II.

Ruggedized tactical NATO encryption device

The ELCRODAT 4-2 is approved for communications up to NATO cosmic top secret. The system is a proven key component for highly secure communications and helps safe Multimode crypto deviced interoperability between NATO nations.

Customized support service during product lifecycle

Every system and device require expert maintenance to ensure its availability throughout the entire product lifecycle. Rohde & Schwarz therefore offers a tailor-made and complete service package including a three-year warranty, preventive on-site maintenance, software updates, a 24/7 support center and a spare parts set.

Key facts

► NATO-compatible SATURN waveform
► NATO encryption
► Robust and reliable design
► Portable solution
► Easy handling and rapid deployment

Front view of the R&S®Mobile SATURN Secure Communications Solution

Specifications in brief

Frequency range		100 MHz to 512 MHz
RF output power		100 W
Temperature range	operating	−20 °C to +55 °C
	storage	−40 °C to +70 °C
Power supply	input	230 V AC (CEE 7/4, type F)
Power consumption		approx. 400 W
Mounting time		approx. 15 minutes with 2 persons
Key features of system components		
Case		▶ waterproof case with closed loop gasket and pressure relief valve ▶ casters for easier transport
Foldable antenna mast with tripod, attachment adapter and rope kit		▶ tubular sectionalized ▶ glass reinforced polyester tubes ▶ rope kit for operation in winds of up to 160 km/h ▶ height: 6 m ▶ maximum vertical top load: 6 kg
Dimensions		
Case with devices	W × H × D	68.6 cm × 61.7 cm × 116.3 cm (27.0 in × 24.3 in × 45.8 in)
Case with accessories	W × H × D	70.5 cm × 83.7 cm × 103.5 cm (27.8 in × 33.0 in × 40.7 in)
Antenna with mast base, sectionalized	H	3.12 m (10.2 ft)
	⌀ of tube	42.7 mm (16.8 in)
Antenna mast with tripod, foldable	H × ⌀	6 m × 2.8 m (19.7 ft × 9.2 ft)
	⌀ of mounting area	2.8 m (9.2 ft)
Weight		
Case with devices		< 80 kg (176.4 lb)
Case with accessories		< 35 kg (77.2 lb)
Foldable antenna mast with tripod		< 15 kg (33.1 lb)

Product information

Designation	Type
Multimode crypto device	ELCRODAT 4-2
R&S®M3SR Series4400 VHF/UHF transceiver, 100 MHz to 512 MHz, 30 W AM/100 W FM, DC, with SATURN/HAVE QUICK II, with local control unit, OCXO, ruggedized	R&S®XT4410M
Power supply, AC/DC, front panel with dust filter and prepared for IP32, ruggedized, 19", 1 HU	R&S®IN4000A
Mobile VHF/UHF antenna	R&S®ANTENNA
Headset, dynamic with cable and NF-7 connector, without active guard	R&S®GA015A
Foldable antenna mast with tripod and rope kit	R&S®MAST

ELCRODAT 4-2 multimode crypto device

R&S®M3SR Series4400 radio

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 85 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	Certified Environmental Management
ISO 9001	ISO 14001

Certified Quality Management
AQAP-2110

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

5216.3420.12 01.00 PDP/PDW 1 en

5216342012