

R&S®ComBox

VERSATILE OUTDOOR COMMUNICATIONS EQUIPMENT

Specifications

Description

R&S®ComBox combines a powerful router with additional functionality frequently used in monitoring systems in a compact weatherproof case. It is ideal for connecting both individual devices and complete stations. Though designed for outdoor use, it can also be used in vehicles, shelters, etc. This makes remote operation of monitoring networks, e.g. for spectrum monitoring or communications intelligence, flexible and efficient.

To provide maximum flexibility, R&S®ComBox supports several communications technologies, including Ethernet, Wi-Fi, fiber optic and cellular networks.

The base unit includes five Gigabit Ethernet interfaces, eliminating the need for additional LAN switches. Two of the interfaces can be implemented as fiber optic interfaces for even higher data rates. The integrated Wi-Fi module (IEEE 802.11an) allows wireless remote control from medium distances. The optional LTE modem makes it possible to control devices and stations from a central headquarters. Multiple inputs for diverse communications antennas ensure excellent network performance.

In addition to versatile communications, R&S®ComBox offers various features frequently used in monitoring systems. Two DC power outputs feed active antennas. The GNSS receiver integrated in the LTE module provides precise location and date/time information based on GPS, GLONASS, BeiDou and Galileo. It is also possible to connect an external GPS to the USB port. A compass can be connected to the RS-232 interface. The compass data is made available to the connected computer via the internal RS-232-to-Ethernet adapter, eliminating the need for external adapters. An external, outdoor DC power supply feeds the R&S®ComBox. All these features combined with its compact size make the R&S®ComBox ideal for integration into vehicles.

Specifications

Base unit		
General data		
Power supply	X100 DC in	+24 V, max. 3 A
Operating temperature range		-40 °C to +70 °C
Power consumption		max. 72 W
Dimensions		330 mm x 165 mm x 160 mm (13 in x 6.5 in x 6.3 in)
Weight		8 kg (17.63 lb)
Interfaces		
Ethernet	X1 to X5	5 to 10/100/1000 Gigabit Ethernet (max. 2x as SFP)
Wireless	X31 to X33	5 GHz 802.11an MIMO triple chain support
SFP	X4, X5	2 x SFP cages for FO or RJ-45 modules
LTE	X11, X12	4G LTE CAT-6 with antenna diversity
Serial port	X41	1 x DB9 RS-232 asynchronous serial port
GNSS	X21	GPS, GLONASS, BeiDou, Galileo
DC out	X51, X52	24 V DC, max. 1 A

Data Sheet | Version 02.00

ROHDE & SCHWARZ

Make ideas real



Ordering information

Designation	Type	Order No.
Versatile outdoor communications equipment	R&S®ComBox	3068.4000.02
Base unit: contains router and interfaces integrated in a weatherproof box, an external DC power supply and three Wi-Fi antennas		
Options		
Wireless module, 3G/4G (APAC)	R&S®ComBox-B5A	3068.4130.03
Wireless module, 3G/4G (Europe, USA)	R&S®ComBox-B5E	3068.4130.02
Fiber-optic Gigabit Ethernet interface	R&S®ComBox-B6	3068.3904.02
Compass	R&S®ComBox-H1	3068.3910.02



Rohde & Schwarz GmbH & Co. KG

www.rohde-schwarz.com

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG

Trade names are trademarks of the owners

PD 3608.2836.22 | Version 02.00 | May 2020 (sk)

R&S®ComBox Versatile Outdoor Communications Equipment

Data without tolerance limits is not binding | Subject to change

© 2019 - 2020 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany