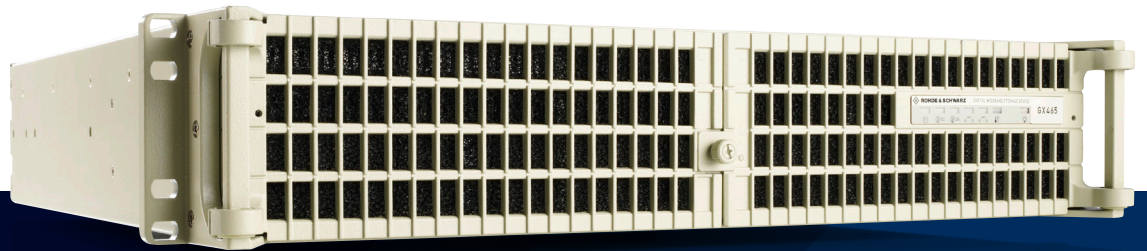# R&S®GX465
DIGITAL WIDEBAND STORAGE DEVICE

Recording and replaying of I/Q data with up to 80 MHz bandwidth

Product Brochure
Version 07.00

ROHDE&SCHWARZ

Make ideas real

AT A GLANCE

The R&S®GX465 (AMREC) is a recording/replaying device, ideal for use in signal interception systems and in combination with the R&S®CA120 multichannel signal analysis software and most Rohde & Schwarz receivers and direction finders.
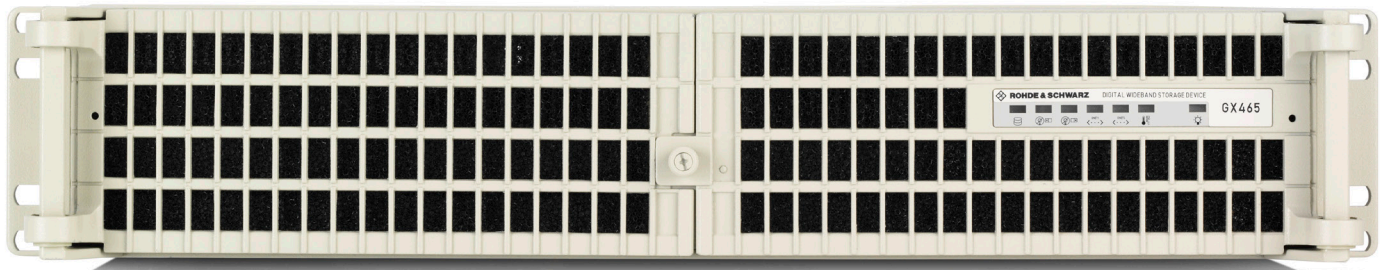
The R&S®GX465 is the ideal solution when there is insufficient time or resources for a live scenario. Recorded signals can either be replayed or exported as a file for offline analysis, e.g. with the R&S®CA210 multichannel signal analysis software or the R&S®CA100 PC-based signal analysis and signal processing software. Recordings can be controlled, and existing recordings can be selected and replayed via the R&S®RAMON radiomonitoring software.

The R&S®GX465 is equipped with solid-state drives (SSD). The storage medium is easily removed for transportation or for security reasons.

Key facts

▶ Sustained data transfer rate for recording baseband I/Q data with a maximum bandwidth of 80 MHz in COMINT applications
▶ Recording of various data formats (I/Q, symbol, image, audio, FFT, etc.)
▶ Removable SSD storage packages up to 50 Tbyte
▶ Various recording and replaying modes such as continuous recording
▶ One-page spectrogram summary of recording
▶ Multiple recordings of various data types in parallel

Front view of the R&S®GX465

BENEFITS AND KEY FEATURES

Compact data recorder with removable storage medium

Compact, 2 HU, 19" format

The R&S®GX465 is a compact digital data recording and replaying device. Its format (2 HU, 19") facilitates rack-mounting together with Rohde & Schwarz compact receivers, such as the R&S®ESME wideband monitoring receiver. The storage medium is simple to insert and remove, making it easy to exchange data between mobile and fixed stations.

Recording and replaying

Depending on the configuration and the type of receiver or direction finder used, the R&S®GX465 is able to record scenarios that can be replayed later. A scenario can be replayed repeatedly (loop mode).

Network interface

With a 1 Gbit Ethernet interface, the R&S®GX465 can be used for recording and replaying scenarios with a bandwidth of up to 10 MHz and for controlling the device. Additionally, the R&S®GX465 can be used for example with 10 Gbit Ethernet (either electrical or optical), data transfer for the R&S®ESMD/ESME wideband monitoring receiver or the R&S®DDF255/DDF260 digital direction finders. The maximum data transfer is sufficient to handle COMINT scenarios with up to 80 MHz bandwidth.
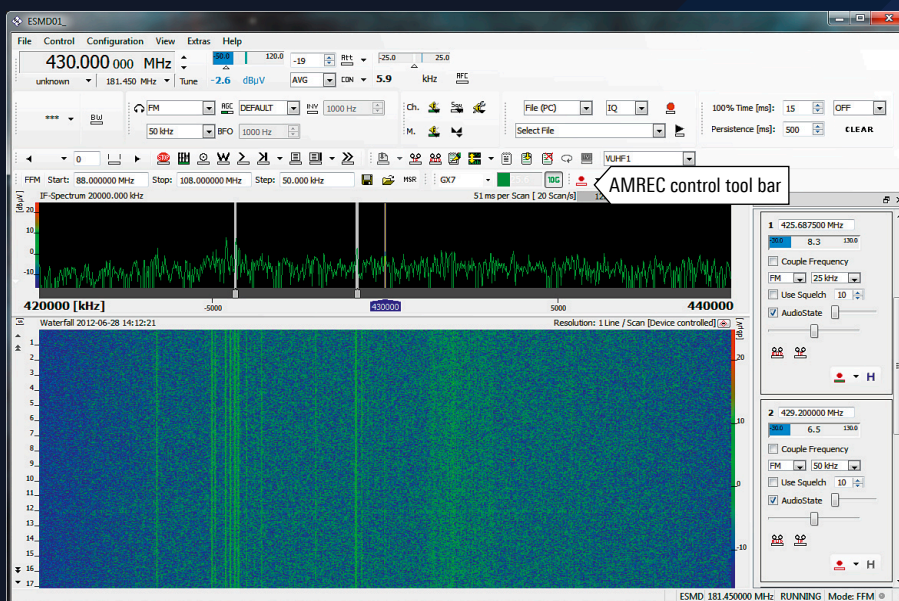
Control interface

The R&S®GX465 is controlled via the 1 Gbit Ethernet interface. Control interface commands supported by the R&S®GX465 include:

► Storage status query (free/used storage space)
► Query list of recordings
► Tagging of recordings with comments
► History function for facilitating the setting of comments for recordings in relation to timestamps
► Export and import of recordings using file transfer protocol (FTP)[1]
► Deleting of specific recordings
► Attachment of a write-protect tag to specific recordings
► Navigation in large recordings
► Built-in test (BIT) during power-up procedure and consistency check

Easy-to-exchange storage medium

The R&S®GX465 uses memory packs with different storage capacity that can be easily exchanged to facilitate data interchange between stations (e.g. between mobile and fixed stations).

[1] Supported by FTP commands.

IF recording/replaying control with a wideband receiver
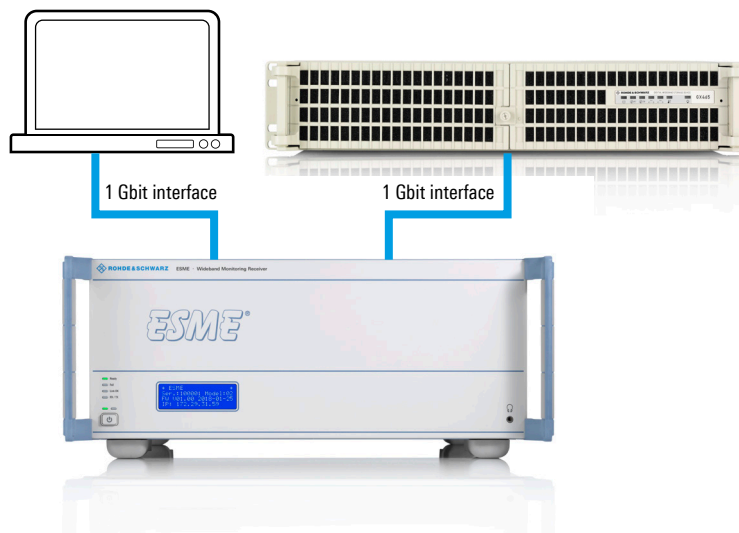
SYSTEM EXAMPLES

Up to 10 MHz recording with the R&S®ESME wideband monitoring receiver and the R&S®RAMON radiomonitoring software

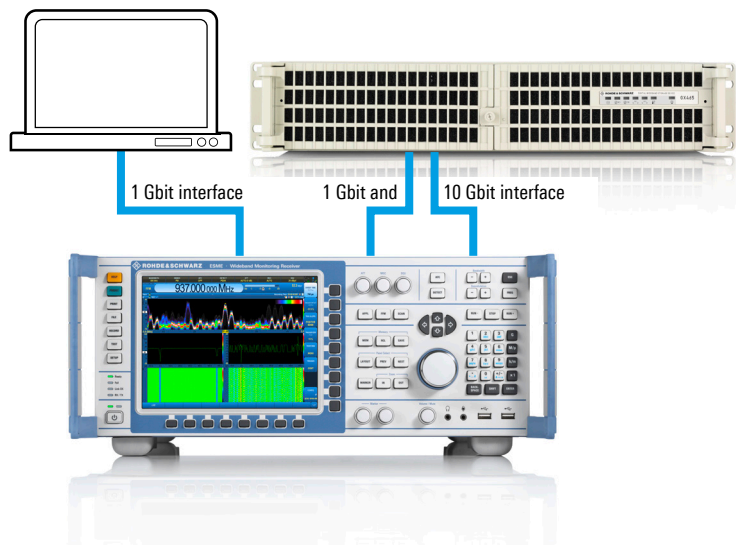▶ Recording of scenarios with up to 10 MHz bandwidth
▶ 1 Gbit interface

Up to 80 MHz recording with the R&S®ESME wideband monitoring receiver

▶ Recording of scenarios with up to 80 MHz bandwidth
▶ Required R&S®ESME options
   – R&S®RX-10G
   – R&S®ESME-WB
   – R&S®ESME-ADC2

Up to 10 MHz recording
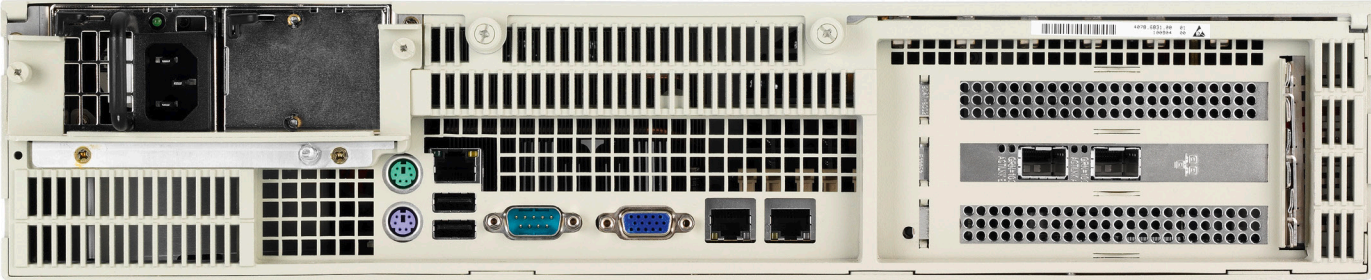

Up to 80 MHz recording

ORDERING INFORMATION

Designation	Type	Order No.
Base unit (delivered with accessories such as power cable, manual)		
Digital wideband storage device, for recording and replaying scenarios up to 80 MHz bandwidth; R&S®RAMON basic AMREC manager software included	R&S®GX465	4100.4002.05
Storage media (one package is required)		
Solid-state drive, 7.68 Tbyte storage capacity	R&S®GX4-S107	4107.0460.02
Solid-state drive, 25 Tybte storage capacity	R&S®GX4-S125	4107.0477.02
Solid-state drive, 50 Tbyte storage capacity	R&S®GX4-S150	4107.0483.02
Auxiliary equipment		
Copper cable QSFP+, for 10 Gbit and two transceivers, length: 5 m	R&S®GX460-CCG	4094.8635.02
Optical cable QSFP+, for 10 Gbit and two optical transceivers, length: 20 m	R&S®GX460-OCG	4094.8641.02

Your local Rohde & Schwarz expert will help you determine the optimum solution for your requirements.
To find your nearest Rohde & Schwarz representative, visit www.sales.rohde-schwarz.com

Rear view of the R&S®GX465

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test and measurement, technology systems, and networks and 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

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