

## HF Transceiver RS 150T

### Brief description

RS150T is a 150 W HF transceiver, based on XK2100 technology. Its small size, robust design and easy-to-use characteristics make it an ideal choice for mobile vehicles of all kinds, including armored vehicles with mortars.

The transceiver features excellent high-frequency characteristics and intelligent internal control (continuous monitoring of functions on module level), can be easily operated from a detached control unit, and is very reliable.

RS150T in its basic configuration is capable of transmitting morse, speech and teletype data. All common classes of emission such as SSB (USB, LSB), ISB, AME, CW, FSK, AFSK, weather fax and FM are available. The transceiver covers 1.5 to 30 MHz for TX, 10 kHz to 30 MHz for RX, with 401 freely programmable channels. The unit meets MIL-STD-810 for environment, MIL-STD-461 and EN50081/50082 for EMC. State-of-the-art technologies have been used in RS150T, such as digital signal processing in the intermediate-frequency part of the transceiver and the automatic connection unit.

The transceiver comes equipped with ALIS automatic connection adaptive system or ALE system (MIL-STD 188-141A).

Typical applications are shortwave telephone and fax, transmission of picture and computer data with 5400 bits/s, data services as DATA LINK Y, LINK E, LINK 11/LINK 22 and MAHRS expandability.



Communication processors to international standards, fast and reliable data transmission as well as message handling (eg with MERLIN) allow XK2000 to be integrated into modern multimedia systems, thus providing the basis for reliable, worldwide-communication independent of existing infrastructures.

Automatic link establishment (ALE) ALE Processor GS2200 automatically sets up the optimum radio communication link using the adaptive Rohde & Schwarz ALIS 2000 procedure or FED-STD-1045/1046/1049 (MIL-STD-188-141A). As for ALIS this procedure is 100% compatible with the HF850 family of radio equipment.

Data transmission: Up to 5400 bits/s are possible by means of the internal multimode HF-modem GM2100. Selectable waveforms are R&S standard, MIL-STD-188-110A, and STANAG 4285/4481. This enables the transmission and reception of telefax messages, computer data, and color video still pictures, for example. Connection between the data terminal (fax machine, video camera) and XK2000 is made by system processor MERLIN from Rohde & Schwarz or an equivalent PC with the appropriate software.

### HF E-Mail

R&S Multimedia/medium product line called PostMan now provides the user with seamless online communication, based on wireless TCP/IP protocol, with an open system approach, offering error free, fast and reliable LAN / WAN connections via HF.

### Features and Benefits

- compatible with XK 2000, HF 850, and R-150 A
- high mechanical and weather resistance
- simple and easy-to-operate via the external control unit
- one hundred presettable channels with complete list of parameters and classes of emission
- configurable from fill-gun or PC
- transceiver, control unit and antenna tuner software upgradeable from PC
- speech compressor, syllabic squelch
- self-contained ALIS or ALE connection system
- optional HF modem with data transfer rate up to 5400 bps
- single coaxial cable link between transceiver and antenna tuner
- continuous monitoring of transceiver parameters and functions
- high reliability

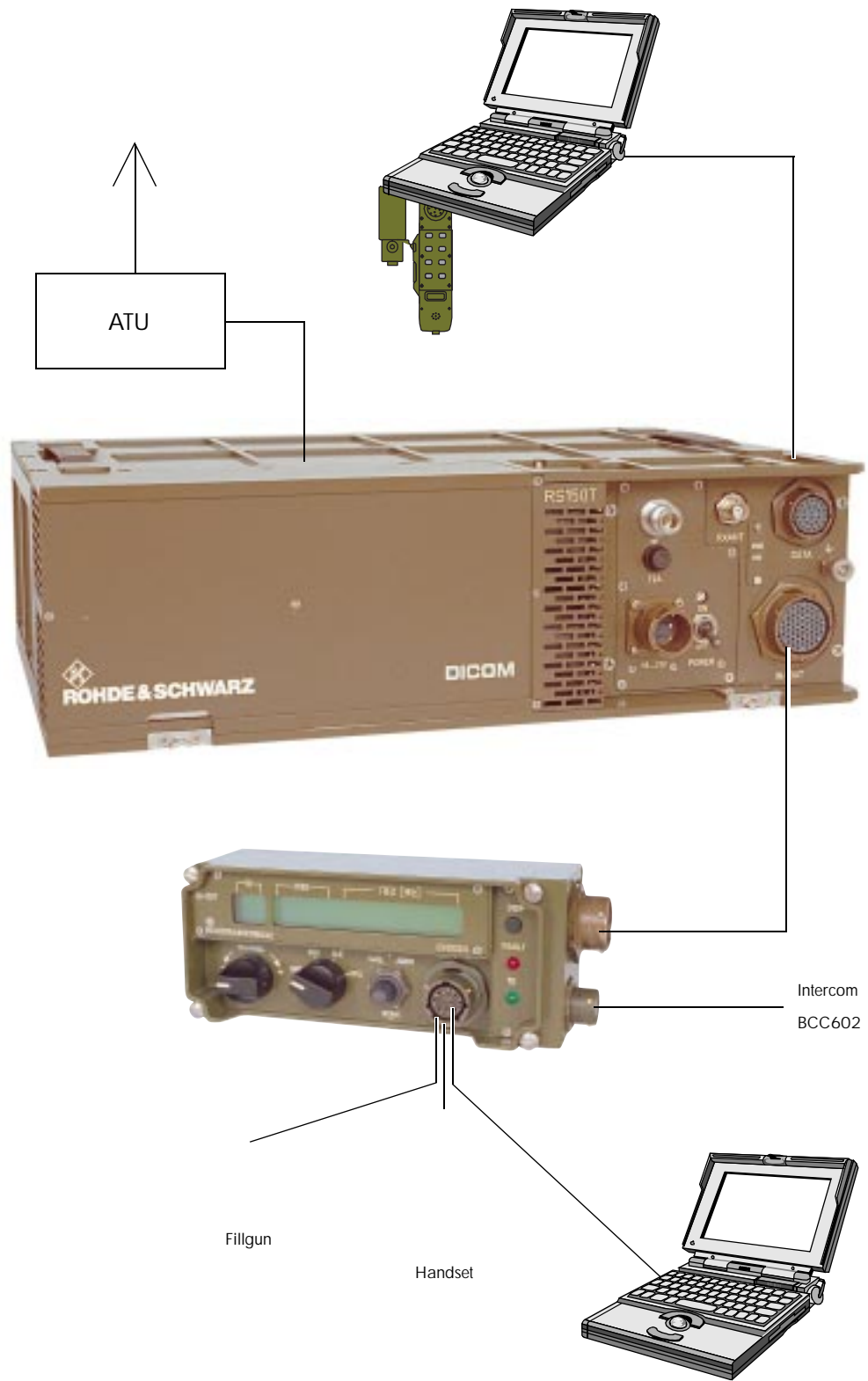


Contents Overview

Chapter Overview

Type Index

R&S Addresses



Block diagram of R-150T HF transceiver set



Contents Overview

Chapter Overview

Type Index

R&S Addresses



