

DICOM® RF40MP Manpack radio

Secure voice and data communication
on tactical command level

Easy to operate in the most
demanding battlefield conditions
and low weight of the set.

- VHF/UHF Multiband manpack radio
- Range of up to 15 km
- Voice & data encryption
- MANET network
- AES based COMSEC
- IP data
- GPS position reporting system (PLI)
- Ground-To-Air Communication (GTA)



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Manpack radio for communication at tactical command level. Based on the RF40 EPM handheld enhanced transceiver.

Compared to the handheld radio, the range of the manpack is increased by improving the antenna and using antenna counterpoise. The counterpoise consists of a conductive chassis with an antenna connector sewn into the bag, which also serves as a mechanical fixture for the whip antenna. The bag features main compartment and two side pockets for accessories.

- increases the range up to 15 km
- maintains the complete RF40 radio functionality
- wide range of RF40 accessories supported
- easy to operate and handle
- low weight

The core of the system

DICOM® RF40 EPM enhanced transceiver

- 30 MHz to 512 MHz frequency range
- Multi channel radio system
- SDR platform
- Multiple waveforms support
- Simultaneous voice and IP data
- Virtual voice channels
- True MANET network for VHF/UHF
- Position reporting system (GPS, Galileo, Glonass)
- AES based COMSEC



RF40MP Manpack radio set

- bag with a counterpoise plate
- RF40 radio
- antenna
- battery
- handset
- set of cables



The RF40MP multiband, multirole VHF/UHF manpack radio is designed for communication on the tactical level in all military branches.

Variety of waveforms FM/AM - voice modes according to STANAG 4204/4205 support legacy ground-to-ground and ground-to-air communication.

WF40 - full fledged COMSEC-secured MANET-type network for voice and data communication in VHF and UHF with automatic rebroadcasting capability over several hops in only 250 kHz wide radio channel offering up to 270 kbit/s capacity for data.

This modern software defined radio platform is open for further legacy and custom waveform porting.



RF40MP composition



Technical parameters

Frequency range	30 MHz to 512 MHz
Modulation type	FM, AM, CPM
Transmission power	5 W / 10 W
Channel bandwidth	25 kHz, 250 kHz
Waveforms	FM/AM (STANAG 4204/4205) WF40 (VHF/UHF MANET waveform)
Communication encryption	AES 256 bits
GNSS receiver	built in (GPS/Glonass/Galileo)
Data interfaces	Ethernet, USB, Serial
Weight including battery pack	max. 4 kg
Operating temperature range	-40 °C to +70 °C
Environmental specification	MIL-STD-810G
EMC specification	MIL-STD-461F

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