

# DICOM® RF40MP Manpack Radio

Secure voice and data communication  
on tactical command level.

Low weight. Easy to operate  
in the most demanding battlefield  
conditions.

- 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





## DICOM®RF40MP Manpack Radio

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

Compared to a handheld radio, the communication range of the manpack is extended due to the use of more efficient antennas and a larger counterweight mass. The counterweight consists of a conductive chassis, sewn into the backpack, which also serves as a mechanical attachment for the antenna. There is plenty of space in the backpack for additional 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 handheld radio

- 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, Beidou)
- AES based COMSEC



### RF40MP Manpack radio kit

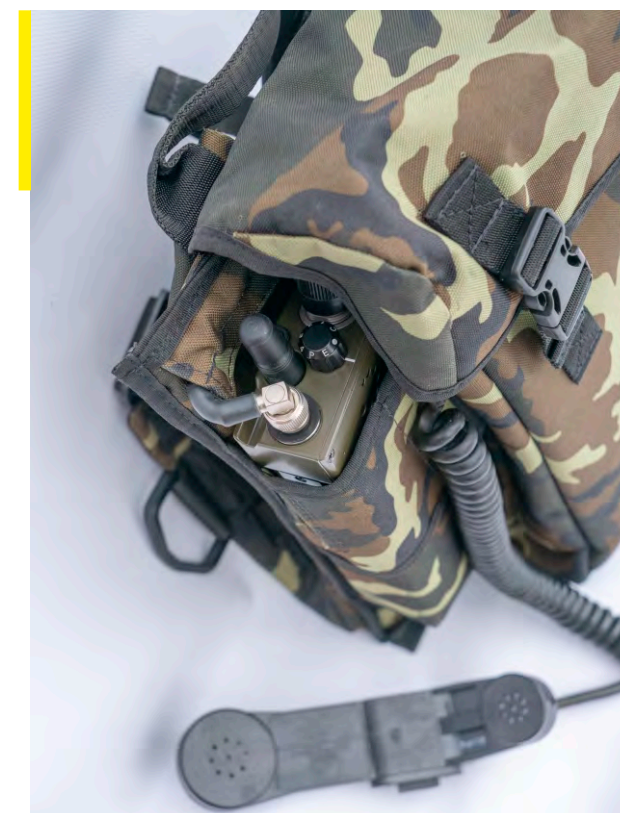
- bag with a counterpoise plate
- RF40 radio
- antenna
- battery
- handset
- set of cables

The RF40MP multiband, multirole VHF/UHF manpack radio is designed for tactical level communication in all types of military units.

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

WF40 - fully-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 in the whole frequency range from 30 to 512 MHz.

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





## RF40MP Kit Composition



## Technical parameters

Frequency range	30 MHz to 512 MHz
Modulation type	FM, AM, CPM
Transmission power	up to 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/Beidou)
Data interfaces	Ethernet, USB, Serial
Weight including battery pack	max. 4 kg
Operating temperature range	-30 °C to +60 °C
Environmental specification	MIL-STD-810G
EMC specification	MIL-STD-461F



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