

DICOM[®] RF40MP Manpack Radio

Secure communication of voice and data at tactical command level.

Low weight. Simple to use in the most challenging battlefield scenarios.

- 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 designed for tactical command level communication, based on the RF40 EPM handheld radio.

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

- extends range up to 15km
- maintains full 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

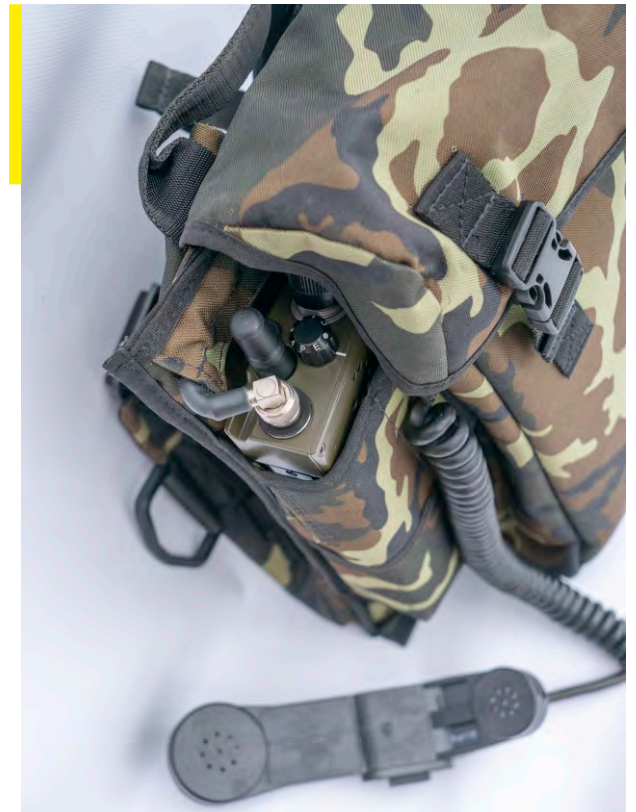
The RF40MP multiband, multirole VHF/UHF manpack radio has been specifically designed to cater for tactical level communication requirements of various military units.

Variety of waveforms:

FM/AM - voice modes according to STANAG 4204/4205 supporting legacy ground-to-ground and ground-to-air communication.

WF40 - a comprehensive COMSEC-secured MANET network providing voice and data communication in VHF and UHF. It boasts automatic rebroadcasting capability over several hops within a radio channel of only 250 kHz, delivering up to 270 kbps data capacity.

This modern software defined radio platform is open for further 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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