

# 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)





## DICOM®RF40MP Manpack radio

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 burst
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

566-09/19/EN



MESIT asd, s.r.o.  
Sokolovská 573, Mařatice  
686 01 Uherské Hradiště  
Czech Republic  
asd@mesit.cz  
T +420 572 522 200

Sales Department  
defence@mesit.cz  
T +420 572 522 603  
F +420 572 522 806  
www.mesit.cz

ID: 60709235  
VAT No: CZ60709235  
Brno Commercial register - C 15427  
All data are subject to change.  
This is not an offer for a contract.

