

# DICOM<sup>®</sup>RF2305 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.

- Range of up to 15 km
- Voice & data encryption
- Frequency hopping
- AES based TRANSEC/COMSEC
- IP data
- GPS position reporting system (PLI)
- Short text messages service (SMS)
- Repeater supported
- Ground-To-Air Communication (GTA)





## DICOM®RF2305 Manpack radio

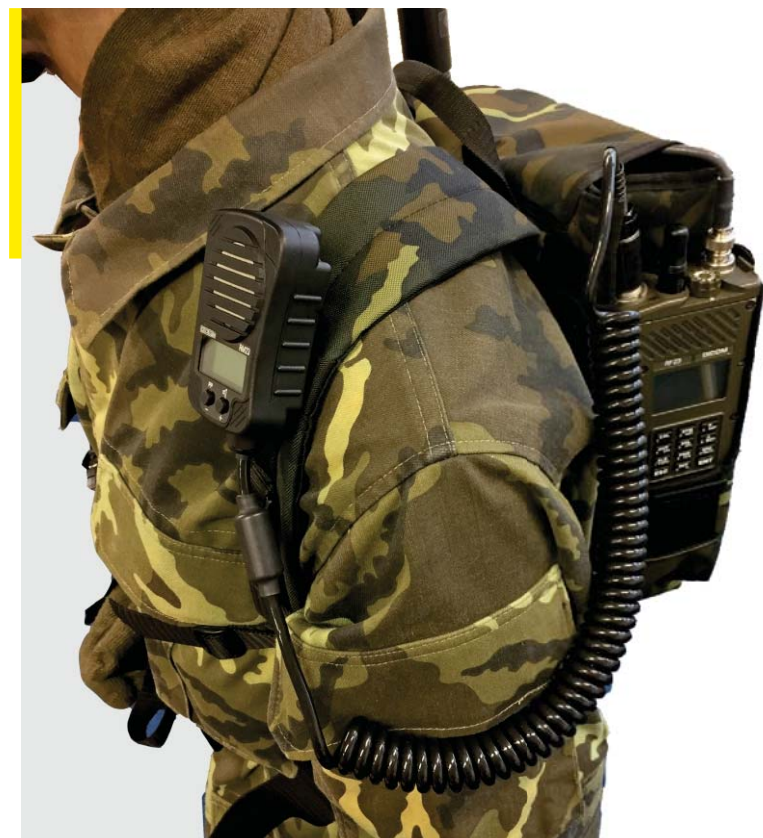
The RF2305 is a manpack radio for communication at tactical command level. Manpack set is based on the RF23 EPM enhanced transceiver.

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

- increases the range up to 15 km
- maintains the complete RF23 radio functionality
- wide range of RF23 accessories supported
- easy to operate and handle
- low weight

### RF2305 set

- bag with a conductive plate and the antenna connector
- RF23 radio
- 2.45 m antenna
- battery
- handset
- set of connecting cables



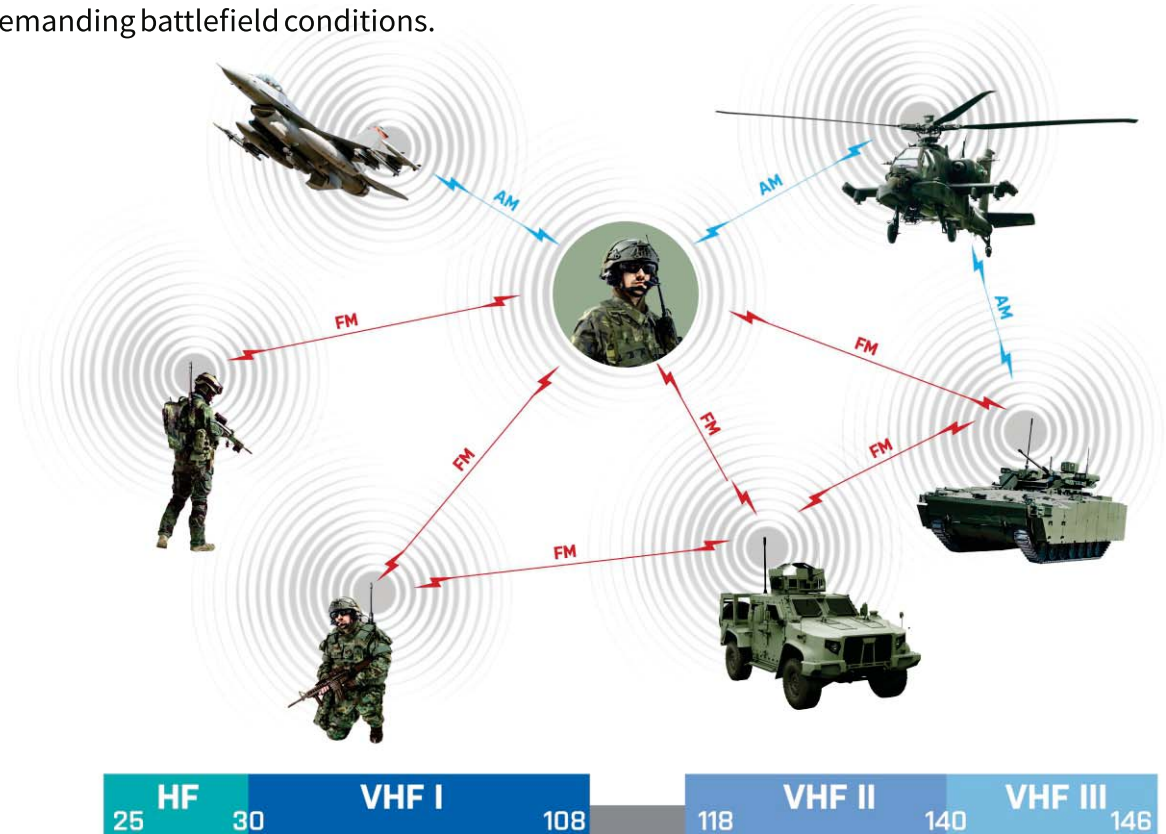
## The core of the system

### DICOM®RF23 EPM enhanced transceiver

- Voice & data encryption
- Frequency hopping
- AES based TRANSEC/COMSEC
- IP data
- GPS position reporting system (PLI)
- Short text messages service (SMS)
- Repeater supported
- Full backward compatibility with RF13/RF1350 System



RF23 enhanced multiband transceiver with increased resistance against radio-electronic warfare intended for squad/team, platoon and company operation is part of the RF20 tactical radios family. The radio communicates in several analog and digital waveforms, including frequency hopping. Secure voice and data communication is encrypted with AES algorithm with effective key length of 384 bits. AM modulation allows for direct communication with aircraft radios. Data communication complies with MIL-STD-188-220, providing IP data capability in MANET network structure. Position Location Information (PLI), automatically collected from the built-in G-Track position reporting system, can be easily transferred to BMS or other C2/C4 application. Compact dimensions, straightforward design and simple interface allows for easy operation in the most demanding battlefield conditions.





# RF2305 composition



## Technical parameters

Frequency range		25 to 146 MHz
Modulation type		FM, AM
Channel spacing		25 / 12.5 / 8.33 / 6.25 kHz
Transmission power	FM	0.2/2/5 W
	AM	0.1/1 W
Battery life (1 : 1 : 10)	LP1302	14 hours
	LP20	26 hours
Data capabilities	MANET	acc. MIL-STD-188-220 6 hops auto-relay SLIP / PPP
	P2P	2.4 - 7.1 kbit/s
	Synchronous data	16 kbit/s
Temperature range		-40 to +70 °C
Immersion		1 m
Environmental specification		according to MIL-STD-810E
EMC		according to MIL-STD-461E
Weight max.		4 kg

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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  
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