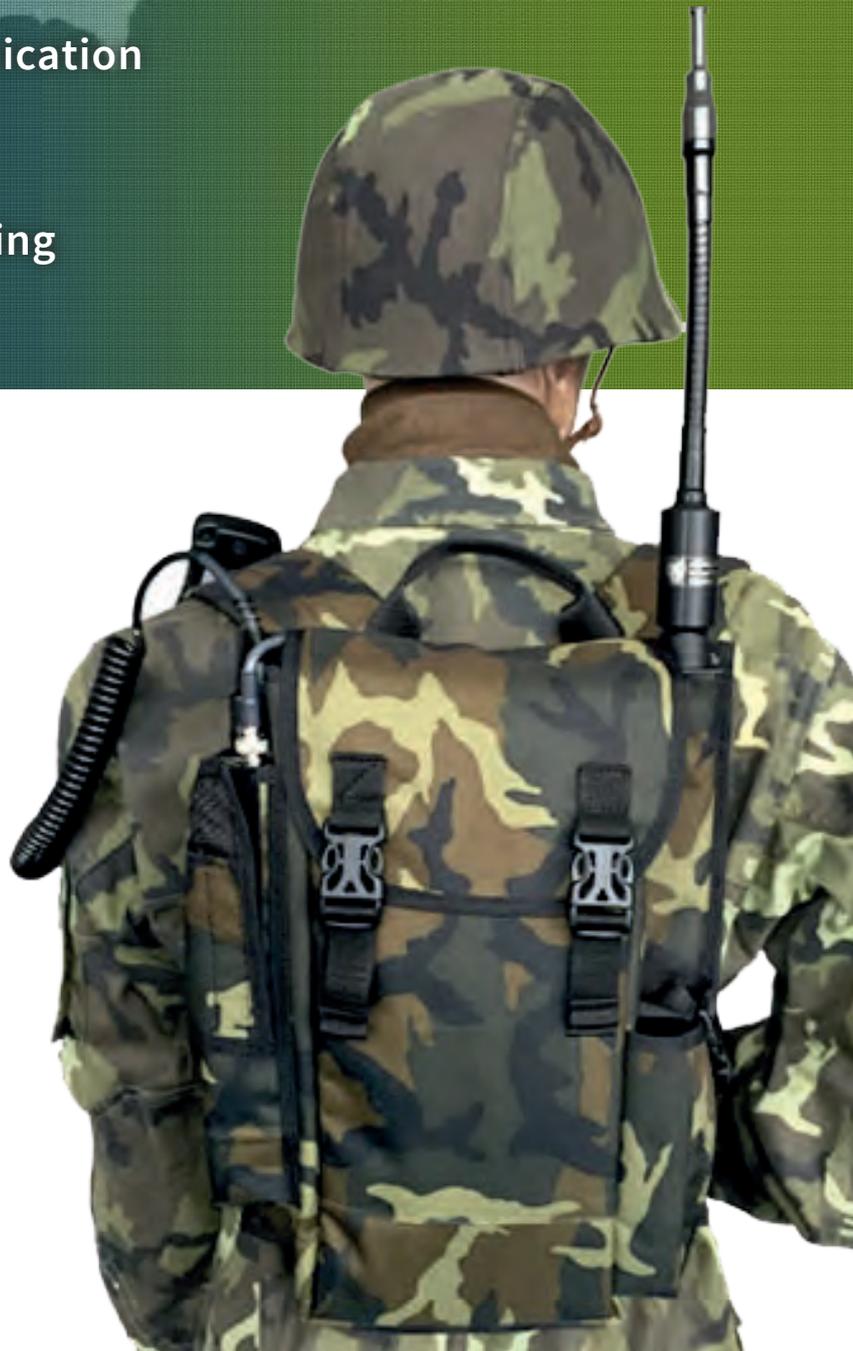


# DICOM<sup>®</sup> RF2305 Manpack radio

Secure voice and data communication  
at tactical command level

Lightweight design and simple  
operation in the most challenging  
battlefield conditions.

- 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 designed for communication at the tactical command level, utilizing the RF23 EPM transceiver.

By enhancing the antenna and adding an antenna counterweight, the manpack provides an increased range in comparison to the handheld radio. The counterpoise comprises a conductive chassis with an antenna connector, sewn into the bag, which additionally serves as a mechanical fixture for the whip antenna. The bag includes a primary compartment and two side pockets for organizing the different parts of the set, as well as storing extra antennas and batteries.

- Extends the range up to 15 km
- Maintains full RF23 radio functionality
- Wide variety of accessories for RF23 supported.
- Easy to operate and handle

### RF2305 set

- A bag with a conductive plate and an antenna connector
- RF23 radio
- 2.45 m antenna
- Battery
- Handset
- Cable set



# The core of the system

## DICOM RF23 EPM advanced transceiver

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



The RF23 handheld multiband transceiver designed for squad, team, platoon, and company operations, features superior resistance against radio-electronic warfare. This device forms part of the RF20 tactical radio range and communicates with various analogue and digital waveforms, including frequency hopping. Secure voice and data communication is encrypted using the AES algorithm, with an effective key length of 384 bits. AM modulation enables direct communication with aircraft radios. Data communication conforms to MIL-STD-188-220, providing IP data capability in MANET network architecture. Position location is also supported. Information (PLI), auto-collected by the in-built G-Track position reporting system, can be effortlessly transferred to BMS or other C2/C4 applications. The compact size, straightforward design and simple interface enables hassle-free operation in even the harshest battlefield conditions.



# RF2305 composition



## Technical parameters:

Frequency range	25 to 146 MHz	
Modulation type	FM, AM	
Channelspacing	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	