

DIGITAL  
& COMMUNICATION  
TECHNOLOGY

# RF23 EPM HANDHELD RADIO

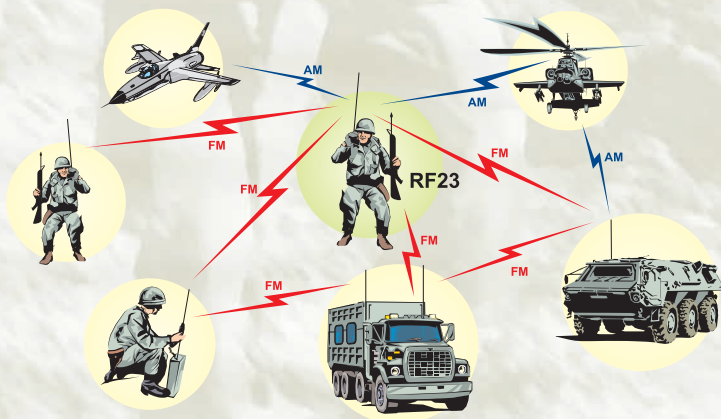
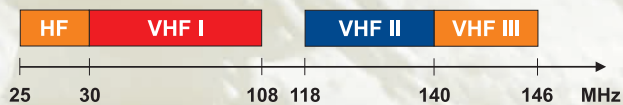


**MESIT**  
defence

- **Voice & data encryption**
- **Frequency hopping**
- **TRANSEC/COMSEC with 384 bits key**
- **IP data**
- **GPS position reporting system**
- **Short text messages service (SMS)**
- **Repeater supported**
- **VoIP telephony supported**

RF23 handheld 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.



#### 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

#### Environmental parameters and dimensions:

Temperature Range ..... -40 to +70 °C  
 Immersion ..... 1 m  
 Environmental Specification ..... acc. MIL-STD-810E  
 EMC ..... acc. MIL-STD-461E

Dimensions\* ..... 90.8 x 189.7 x 41.4 mm [w x h x d]  
 Weight\* ..... max. 1.35 kg

\* including LP1302 battery pack, without GPS antenna

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