

**DIGITAL  
& COMMUNICATION  
TECHNOLOGY**

**RF20  
EPM  
HANDHELD  
TRANSCEIVER**



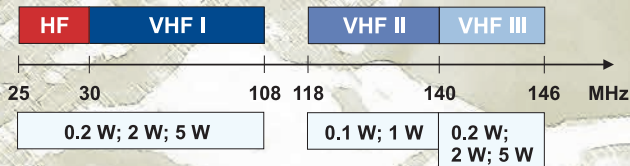
**mesit**

**MESIT**  
defence



- **TRANSEC/COMSEC technology**
- **Voice & data encryption**
- **Simplex or semi-duplex operation**
- **Noise gate or 150 Hz sub-tone squelch**
- **Frequency Hopping, Free Channel Search or MIX-mode**
- **Digital Fix Frequency**
- **Hailing background scan**
- **Late Net/Traffic Entry**
- **Short code messages service**
- **Short text messages service**
- **Break-In service**
- **IP-based data**
- **10 presets**
- **Whisper mode**
- **Display and keypad illumination**
- **Emergency erasure**
- **Remote control via RM20**

RF20 EPM handheld transceiver belongs to the RF20 radio system of multiband tactical radios with increased resistance to radio-electronic warfare. Small footprint, robust design and outstanding features add to its great utility for use at the tactical command levels for all kinds of military units. Depending on the type of selected frequency, the transceiver is able to communicate in HF and VHF band using frequency modulation, or with airborne transceivers in aircraft band using amplitude modulation.



## Technical parameters

Frequency range ..... 25 to 146 MHz  
 Modulation type ..... FM, AM  
 Channel spacing ..... 25 / 12.5 / 8.33 / 6.25 kHz

Hopping rate ..... 100 hops/s  
 Special operation modes  
 FH ..... Frequency Hopping  
 DFF ..... Digital Fixed Frequency  
 FCS ..... Free Channel Search  
 MIX ..... FH or FCS auto-selection  
 Synchronization hold ..... min. 48 hours

Data capabilities  
 P2P ..... up to 7.1 kbit/s  
 MANET ..... MIL-STD-188-220

Supply voltage range ..... 6.5 to 9.5 V  
 Current consumption  
 transmission ..... max. 3.2 A  
 reception ..... max. 0.19 A  
 Battery life (1 : 1 : 10) ..... min. 15 hours

Transmission power  
 FM ..... 0.2 / 2 / 5 W  
 AM ..... 0.1 / 1 W  
 Harmonics suppression ..... min. 40 dB  
 Spurious suppression ..... min. 60 dB

Sensitivity ..... 0.5 µV  
 Audio distortion ..... 10 %  
 Audio power ..... 200 mW  
 Audio bandwidth  
 narrow band ..... 300 to 3 000 Hz  
 wide band ..... 10 to 11 000 Hz

Temperature range ..... -40 to +70 °C  
 Immersion ..... to 1 m  
 Environmental specification ..... according to MIL-STD-810E  
 EMC ..... according to MIL-STD-461E

Dimensions\* ..... 97 x 217 x 44 mm [w x h x d]  
 Weight\* ..... max. 1.15 kg

\* including battery pack

