

**DIGITAL
& COMMUNICATION
TECHNOLOGY**

**RF20
EPM
HANDHELD
TRANSCEIVER**

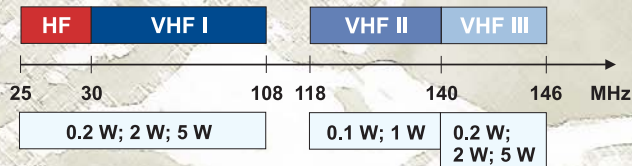


DICOM

MESIT Group

- **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**
- **GPS receiver available**

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. 52 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 μ V
 Audio distortion 10 %
 Audio power 200 mW
 Audio bandwidth
 voice 300 to 3 000 Hz
 data 10 to 11 000 Hz

Temperature range -30 to +60 °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

