

**DIGITAL  
& COMMUNICATION  
TECHNOLOGY**

# **RF2050 EPM MOBILE TRANSCEIVER**



**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 RC20**
- **Co-Site filter**



RF2050 EPM mobile 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 band, 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 .....	10 to 33 V
Current consumption (@ 24 V)	
transmission .....	max. 12 A
reception .....	max. 0.625 A
Transmission power	
FM .....	5 / 50 W
AM .....	2 / 15 W
Harmonics suppression .....	min. 60 dB
Spurious suppression .....	min. 70 dB
Sensitivity .....	0.5 $\mu$ V
Audio distortion .....	10 %
Audio power .....	1 W
Audio bandwidth	
narrow band .....	300 to 3 000 Hz
wide band .....	10 to 11 000 Hz
Temperature range .....	-40 to +70 °C
Environmental specification .....	according to MIL-STD-810E
EMC .....	according to MIL-STD-461E
Power supply .....	according to MIL-STD-1275B
Dimensions .....	202 x 210 x 186 mm [w x h x d]
Weight .....	max. 9 kg