

**DIGITAL
& COMMUNICATION
TECHNOLOGY**

RF2050 EPM MOBILE 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**
- **Co-Site filter option available**



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. 52 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. 0.5 A
Transmission power	
FM	5 / 50 W
AM	2 / 15 W
Harmonics suppression	min. 60 dB
Spurious suppression	min. 70 dB
Sensitivity	0.5 μ V
Audio distortion	10 %
Audio power	1 W
Audio bandwidth	
voice	300 to 3 000 Hz
data	10 to 11 000 Hz
Temperature range	-30 to +60 °C
Environmental specification	according to MIL-STD-810E
EMC	according to MIL-STD-461E
Dimensions	202 x 210 x 186 mm [w x h x d]
Weight	max. 9 kg