RF4050 - Vehicular radio

Type designation: **RF4050**

Combining VA40 vehicle amplifier with RF40 handheld transceiver results in RF4050 vehicular radio. It is designed so that the handheld transceiver is easily removable (Jerk and Run) and can be used as a portable radio, if necessary. MM40WR Mission Module can be connected.

Operating features

- 30 MHz to 512 MHz frequency range,
- multi channel radio system,
- true MANET network for VHF/UHF,
- simultaneous voice and IP data,
- virtual voice channels,
- multiple waveforms support,
- position reporting system (GPS, Galileo, Glonass),
- AES based COMSEC/TRANSEC,
- up to 50 W power output,
- compact and robust design suitable for wheeled and tracked vehicles,
- Jerk and Run support,
- vehicle intercom interface,
- 12 VDC or 24 VDC power supply,
- Mission Modules support,
- optionally up to two co-site filters (for 30 MHz to 90 MHz band and UHF band).

Technical parameters

Frequency range	30 MHz to 512 MHz
Modulation type	FM, AM, CPM
Transmission power	max. 50 W
Supply voltage range	10 V to 33 V (MIL-STD-1275E)
Current consumption 24 V	
transmission 50 W	max. 12 A
reception	max. 0.8 A
Channel bandwidth	25 kHz, 250 kHz
Waveforms	

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	LOS FM/AM (STANAG 4204/4205) WF40 (VHF/UHF MANET waveform) HW20 (VHF EPM waveform); optional
Communication encryption	AES, key length up to 384 bits
GNSS receiver	built in (GPS/Glonass/ Galileo)
Data interfaces	Ethernet, USB, Serial
Mechanical a climatical resistance, EMC	
Dimensions	202 mm x 220 mm x 226 mm
Weight	max. 10 kg
Operating temperature range	-30 °C to +70 °C
Environmental specification	MIL-STD-810G
EMC specification	MIL-STD-461F

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