

# 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

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

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