

AT RF40V - VHF/UHF Vehicular Radio

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- ✓ 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
- ✓ Jerk and Run support
- ✓ Connection to the vehicle's intercom
- ✓ 12 VDC or 24 VDC power supply
- ✓ Mission Modules support
- ✓ Up to two internal co-site filters
- ✓ Backward compatibility with the RF20 radio system



The RF40V multiband, multirole VHF/UHF vehicular radio is designed for communication on the tactical level in all military branches.

The RF40V is intended for installation in all tracked and wheeled vehicles and base stations. The core component of the RF40V is the RF40 handheld radio. To maintain communications in dismount operations, the system's "jerk-and-run" capability allows the handheld radio to be quickly removed.

Variety of waveforms

FM/AM - voice modes according to STANAG 4204/4205 support legacy ground-to-ground and ground-to-air communication.

WF40 - full fledged COMSEC-secured MANET-type network for voice and data communication in VHF and UHF with automatic rebroadcasting capability over several hops in only 250 kHz wide radio channel offering up to 270 kbit/s capacity for data.

HW20 - frequency agile VHF waveform secured by strong COMSEC/TRANSEC allowing backward compatibility with AT

RF20 radio system.

This modern software defined radio platform is open for further legacy and custom waveform porting.

Mission Module



Expands the radio features according to actual mission needs. Open platform for installation of custom specific devices of different types. MM40W Mission Module type offers second independent broadband radio channel for voice and data transmission in MANET-type network. Available in L-band or S-band frequency configuration allowing data transmissions in dozens of megabits depending on the radio channel bandwidth setup.

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GNSS

Built-in GNSS receiver for GPS, Glonass and Galileo systems with automatic despatch of positional reports (PLI) on the background of voice or data communication G-Track system.

Co-site performance

The transceiver is manufactured with or without a co-site filter. Integrated co-site filters make it possible to operate

multiple radios simultaneously at close distance.

Intercom

The RF40V provides interface for connection to vehicle intercom systems (e.g. VICM200 Combat).

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		LOS FM/AM (STANAG 4204/4205) WF40 (VHF/UHF MANET waveform) HW20* (VHF EPM waveform)
Communication encryption		AES, key length up to 384 bits
GNSS receiver		built in (GPS/Glonass/Galileo)
Data interfaces		Ethernet, USB, Serial
Mechanical and climatic resistance, EMC		
Dimensions		202 mm x 220 mm x 226 mm
Weight		max. 10 kg
Operating temperature range		-40°C to +70°C
Environmental specification		MIL-STD-810G

*option



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