

RF40 - Handheld transceiver

Type designation: **RF40**

PN (RN): **2400.100.01**

The RF40 Thoroughbred Radio System is a versatile system for secure tactical radio data and voice communication in VHF and UHF bands.

Its main features are:

- excellent RF parameters
- efficient utilization of the available frequency spectrum
- high data rate throughput even in low VHF band
- voice and data true MANET capabilities
- dual voice stream with data in one channel
- second physical radio channel with tactical Ethernet broadband data/voice Mission Module
- vehicular amplifier with jerk-and-run capability of the handheld radio

Operating features

- multi-channel radio system
- simultaneous voice and IP data transmissions including video support
- decentralized, auto-forming, true multi-hop MANET network for voice and data
- multiple voice streams in one channel (virtual channels)
- bandwidth saving 250 kHz channel with up to 270 kbit/s data rate
- highly secure AES based COMSEC
- native position reporting system (GPS, Galileo, Glonass)
- up to 10 W RF power output (handheld)
- 50 W vehicular amplifier with jerk-and-run support

Technical parameters

General

Frequency range	30 - 512 MHz
Modulation	FM, AM, CPM
Transmitting power	5 W / 10 W burst
Channel spacing	8,33 kHz, 25 kHz, 250 kHz

Waveforms	LOS FM/AM (STANAG 4204/4205) WF40 (V/UHF MANET WF, native IP capable)
Encryption	AES based
GNSS receiver	built-in (GPS/Glonass/Galileo)
Data interfaces	Ethernet, USB, Serial
Mechanical, Climatic and EMC	
Dimension incl. battery	(74 x 202 x 41) mm
Weight incl. battery	0.9 kg
Temperature range	-30 °C to +70 °C
MIL-STD-810F	low/high temperature, humidity, low pressure, 1 m immersion, icing / freezing rain, salt fog, sand and dust, vibration, shock, bench handling
MIL-STD-461F	CE102, CS101, CS114, RE102, RS103

Accessories

Type designation	PN (RN)	Name
LP40	7400.100.01, 7400.100.02, 7400.100.03, 7400.100.04	Battery
SC40	7410.100.01	Stationary charger
PC40	7411.100.01	Simple charger
VC40	7412.100.01	Vehicle charger
FG40	2420.100.01	Fillgun
MM40WR	2401.100.01	Mission module
VA40	2410.100.01	Vehicle amplifier

BA40

7413.100.01

Power
Adaptor