

AT PRR 1M

AT PRR 1M

Supplies of the equipment stopped.

The AT PRR 1M mobile personal role radio operates in 2.4 GHz frequency band using spread spectrum waveform - combination of time hopping, frequency hopping and OFDM (Orthogonal Frequency Division Multiplex). Designed for operation within groups of up to 30 users allows for full duplex communication in ad-hoc digital networks with no additional infrastructure required. It is designed for fixed installation in all types of military.

Operating features

- ✓ Frequency range 2.4 GHz;
- ✓ Spread spectrum;
- ✓ duplex voice communication in a group of up to 30 participants,
- ✓ up to four participants may speak simultaneously,
- ✓ 3-step volume regulation,
- ✓ 8 selectable channels,
- ✓ automatic identification in the network after transceiver power up,
- ✓ communication in another network (via a connected transceiver from another network),
- ✓ keying using the VOX feature (in AT PRR 1 network),
- ✓ communication with the transceiver via USB interface,



- ✓ simple operation

Technical parameters

Frequency range	2400.0 MHz to 2483.5 MHz
Modulation type	OFDM, frequency and time hopping
Number of operating channels	240
Directly selectable nets (channels)	8
Modulation type	OFDM, frequency and time hopping
Simultaneous duplex data and voice transfer	16 kbit/s
Fast data-only mode	160 kbit/s
Mean power during transmitter activity	max. 100 mW EIRP
Noise number of the receiver	4 dB
Non-linear distortion factor	max. 10 %
Range of effectively transmitted frequencies	voice 300 Hz to 3000 Hz
Nominal supply voltage	28 V
Limit supply voltage	min. 8 V
Current consumption - transceiver	max. 35 V
12 V	max. 0.12 A
28 V	max. 0.09 A
Operating temperature	-30 °C to +50 °C
Storing temperature	-40 °C to +70 °C
Transceiver dimensions (without installation elements)	W 157 mm x H 56 mm x D 94 mm
Transceiver weight	max. 1 kg
Submersion	1 m

Accessories

- ✓ Vehicle antenna 2.4 GHz
- ✓ Vehicle antenna 2.4 GHz
- ✓ Headset (COBRA)
- ✓ Antenna cable
- ✓ Antenna cable
- ✓ Power and AF cable for AT PRR 1M
- ✓ Vehicle antenna 2.4 GHz 0.8 m
- ✓ Vehicle antenna 2.4 GHz 0.8 m
- ✓ Dual vehicle antenna 2.4 GHz 0.9 m
- ✓ Antenna cable
- ✓ Antenna cable

- ✓ Data cable
- ✓ Data cable - with option of headset connection
- ✓ Operating prog. with cable

Supplies of the equipment stopped.

Mobile - Personal - Role - Radio - Spread Spectrum - Frequency Hopping