

## AT PRR 1M

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

**Mobile|Personal|Role|Radio|Spread Spectrum|Frequency Hopping**

[http://personal-role-radio.at-communication.com/en/at/mobile\\_personal\\_role\\_radio\\_atpr1m.html](http://personal-role-radio.at-communication.com/en/at/mobile_personal_role_radio_atpr1m.html)