

AT PRR 1

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Supplies of the equipment stopped.

The crucial element of the AT PRR1 radio system is a short-range transceiver operating in 2.4 GHz band with spread spectrum. The AT PRR1 provides voice and data communication. It is meant for operation units up to 30 persons requiring mutual communication (each to each) with rebroadcasting option. The transceiver is suitable both for communication among buildings and in open terrain, where the range extends up to 1000 m. Interception chances are very low. The transceiver is very resistant against narrow-band jamming. It is designed for full duplex communication in a group (network) without any further infrastructure and, with rebroadcasting, for communication between networks.

The 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.

Operating features

- ✓ Frequency range 2.4 GHz;
- ✓ Spread spectrum;
- ✓ Space diversity 2 x 2;



- ✓ Duplex voice communication in a group of up to 30 users, up to 4 simultaneous calls;
- ✓ Simultaneous voice and data transmission;
- ✓ Automatic network identification after transceiver powerup;
- ✓ Volume regulation in four steps;
- ✓ Light headset;
- ✓ Wireless keying;
- ✓ Small dimensions, lightweight;
- ✓ Easy to operate;
- ✓ Long operation time with Lilon battery pack;
- ✓ Erasure of all input parameters;
- ✓ Standard AA disposable batteries as a power supply option.

AT Communication © Technical parameters

Frequency range	2400.0 MHz to 2483.5 MHz
RF output power	max. 100 mW EIRP
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
Nominal supply voltage	3.7 V
Limit supply voltage	3.0 V to 5.2 V
Operation time at duty cycle transmission : reception : stand-by (1 : 1 : 10)	24 hours (with BP200 battery pack)
Operating temperature range	-30 °C to +50 °C
Immersion	to 1 m
EMI	according to MIL-STD-461E
Dimensions including battery pack	78 mm x 133 mm x 27 mm [w x h x d]
Dimensions of battery pack	78 mm x 63 mm x 27 mm [w x h x d]
Weight	
AT PRR 1 personal role radio	0.23 kg
AT PRR 1 battery pack	0.22 kg

Accessories

- ✓ Battery pack
- ✓ Headset
- ✓ Wireless PTT switch

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- Carrying strap
- Bag
- Battery pack
- Stationary charger set
- Mobile charger set
- Small mains charger set
- Headset
- Data cable
- Interconnection cable

Supplies of the equipment stopped.

Personal Role Radio - AT PRR1 - Spread Spectrum - OFDM