

**DIGITAL
& COMMUNICATION
TECHNOLOGY**

PR20 PERSONAL ROLE RADIO



DICOM

MESIT Group

- **Frequency range 2.4 GHz**
- **Spread spectrum**
- **Space diversity 2 x 2**
- **Group of up to 30 users, 4 simultaneous calls**
- **Simultaneous voice and data transmission**
- **Light headset**
- **Wireless keying**
- **Small dimensions, lightweight**
- **Easy to operate**
- **Long operation time with Lilon battery pack**
- **Standard AA disposable batteries as a power supply option**



The PR20 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. Automatic rebroadcasting (packet routing), space diversity transmission and reception (two transmitters and two receivers in each radio), high speed data transmission, long battery life and relay to higher level network are standard features.

Technical parameters

Frequency range	2400.0 MHz to 2483.5 MHz
RF output power	max. 100 mW EIRP
Directly selectable nets	8
Modulation type	OFDM, frequency and time hopping
Simultaneous duplex voice and data 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	24 hours (with BP200 battery pack)

ENVIRONMENTAL SPECIFICATION

Operating temperature range	-30 °C to +60 °C
Immersion	to 1 m
EMC	according to MIL-STD-461E

MECHANICAL SPECIFICATION

Dimensions including BP200 battery pack	W 78 mm x H 133 mm x D 27 mm
Dimensions of BP200 battery pack	W 78 mm x H 63 mm x D 27 mm
Weight	
PR20 personal role radio	0.23 kg
BP200 battery pack	0.22 kg