

PRM 4

Packet Radio Modem

Highlights

- Packet radio modem for ISM 868MHz frequency range
- Serial interface RS-232 DCE
- Serial interface RS-422 or RS-485, 2 wire or 4 wire, with or without termination
- Range up to 2km with rod antenna and up to 16km with high gain antenna
- LED indications for power supply, receive, transmit and error in channel
- Optional mounting for 35mm DIN rail



Description

PRM 4 is packet radio modem intended for wireless transfer of serial protocols in unlicensed ISM 868MHz frequency range. It has RS-232 DCE, as well as two wire or four wire RS-422 or RS-485 interface. On front panel there are LED indications for power supply, receive, transmit and error in channel. Range up to 2km is achieved with small rod antenna and up to 16km with high gain antenna. Device power supply range is 8-32Vdc. PRM 4 is shipped in desktop version or with optional 35mm DIN rail mounting carrier.

Application

Packet radio modem of fourth generation can be used in industrial environment where there are no conditions for wire interconnecting of communication equipment, as it is with moving and rotating machines, natural and artificial barriers, as well as in situations where simple and fast interconnection is requested without mounting of additional wires. It enables interconnection of several communication devices in wireless network, with range extension thanks to repeater working mode. AT command interface is intended for parameters setting.

Technical specification

Frequency range	ISM 868MHz, according to EN 300 220
Channel range and number	25kHz, 80 channels
Transmit power	+13dBm, 20mW
Modulation	2FSK with Gaussian filtration
Radio signaling rate	9600bps
Receiver sensitivity	better than -115dBm for 10^{-3} BER
Channel occupation time	less than 1%
Range	up to 2km with rod antenna, 16km with high gain antenna
Serial interface	8 data, None parity, 1 stop bit 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Serial connector DB9 DCE	RS-232: Tx, Rx, RTS, CTS, DTR, DSR, DCD, RI, GND RS-422: Tx+, Tx-, Rx+, Rx-, GND (2W/4W selectable) RS-485: Tx+, Tx-, Rx+, Rx-, GND (2W/4W selectable) Termination 120 Ohm for RS-422 and RS-485 selectable
Power supply	8-32Vdc, 2W
LED indications	power supply, receive, transmit, error in channel
Temperature range	-20°C to +75°C, 0 to 95% RH (non condensing)
Protection	IP50
Dimensions	86 x 57 x 26 mm
Mounting	desktop or optional mounting for 35mm DIN rail

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