

Radio Modem



RM-48

Advanced Radio Modems

The RM-48 is a full-duplex radio modem, designed for interfacing computers and microcontrollers to 2-way radios. The modem employs Minimum Shift Keying (MSK) modulation achieving excellent data communication results at 1200/2400/4800 bps. Unlike conventional radio modems, the RM-48 allows you to feed in data at the same rate the data being transmitted over the air.

The RM-48 has a built in RS232 multiplexer allowing the host application to communicate with up to 3 additional RS232 peripherals.

Application Features:

- Operates in Half & Full Duplex Modes
- Asynchronous mode allows operating as extended RS232 port
- Operates in transparent and non-transparent modes
- Extremely reliable over the air data transmission
- Intelligent logic allows to share voice and data on same channel
- Operates as a base station controller in Host Mode
- Channel steering capabilities
- 10 turn POTs for accurate adjustments for Tx/RX signal levels
- IO loop back allowing in field test for all control signals
- Provides 3 expansion RS232 ports for the host controller
- Supports external GPS receiver for AVL applications
- Capable of supporting complex geo-fencing

Product Highlights:

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|-------------------------|---------------------------|
| Dimensions | 170 (mm)x100 (mm)x35 (mm) |
| Weight | 225g |
| Enclosure | Injection Molded Plastic |
| DTE Baud Rates | 1200/2400/4800/9600 |
| DCE Baud Rates | 1200/2400/4800 |
| Tranmission Modes | Synchronous/Asynchronous |
| Supported Radio Systems | Conventional & Trunking |
| Card Reader | Smart Card Reader |
| Ports | 3 RS232 ports |
| Environmental | -20C to +65C Operational |
| Electrical | 10-18VDC |
| RS232 Ports | 3 Outputs/ 1 Input |
| Control Parameters | 26 Programmable Settings |