

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## ZP8D-24RM-LR

## Industrial Long Range 868 MHz Radio Modem

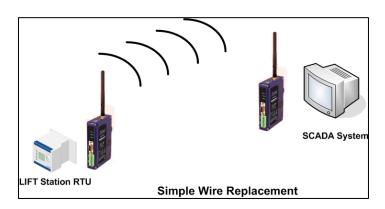
- ✓ RS-232/422/485 Wire Replacement
- √ Serial Data Rates up to 230.4 Kbps
- **✓ Modbus ASCII/RTU**
- ✓ Long Range
- ✓ Adjustable Transmitter Power
- √ Wide Operating Temperature
- √ 10 48 VDC or 18 30 VAC Operation

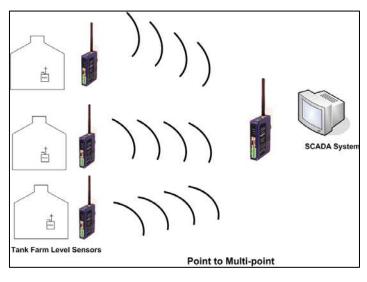
Ideally suited for applications in which running cable is either to expensive or not practical. If you need to get a serial signal across a river, highway, or just to the other end of your warehouse Zlinx ™ Radio Modems can do the job easier, faster, and less expensive than running cable. Easy plug-and-play setup saves installation time. Since they are Modbus compatible, no external converters are required.

Setting up and programming the modem is easy with the Zlinx™ Manager software. The software covers everything from basic to advanced settings and firmware updates.

- Long Range
- Industrial Grade DIN Mount Case
- European SRD G3 868 MHz Band
- Wide Operating Temperature, -40 to 85 C
- FSK Modulation
- · LED Signal Strength Display
- · Compact Omni Directional Antenna Included
- Software Adjustable Transmitter Output
- Point to point or point to multi-point operation









Radio Frequency

RoHS

## **Specifications**

Specifications		
RS-232		
Connector Signals Connector Signals	DB9 F, DCE TD, RD, RTS, CTS, GND Removable Terminal Block TD, RD, GND	
RS-422		
Connector Signals Termination	Removable Terminal Block TDA(-), TDB(+), RDA(-), RDB(+), GND 120 Ohm, DIP Switch Selectable	
RS-485	B 11 T 1 1 1 1 1 1	
Connector Signals Modes SD Control Termination	Removable Terminal Block TDA(-), TDB(+), RDA(-), RDB(+), GND 2 or 4 Wire Bit wise enabled 120 Ohm, DIP Switch Selectable	
Serial Data	1000 1 000 1	
Baud Data bits Parity Stop bit	1200 to 230.4 7, 8 None, even, odd, mark, space 1, 2	
Link Failure Output		
Connector Type Current	Removable Terminal Block Open Collector (PNP), Dry Contact 40 mA	
Industrial Bus	Madhua ACCII/DTI I Campatible	
Power	Modbus ASCII/RTU Compatible	
Connector Voltage Power Consumption Source	Removable Terminal Block 10 to 48 VDC or 18 to 30 VAC 6.0W Maximum External – Power supply is not included	
Terminal Blocks		
Wire Size Torque	28 to 16 AWG 0.2 Nm (Newton-Meters)	
LED Indicators	ON = Power Applied, OFF = No Power	
Power (RED) RSSI / Signal Level	GEEEN = Strong Yellow = Adequate Red = Weak	
Wireless Data	GREEN – Flashes with data	
Enclosure	B	
Material IP Rating Dimensions Mounting	Plastic 30 3.05 x 8.38 x 11.94 cm (without antenna) 35 mm DIN Rail, Panel mount adapter is available, see ordering information	
Environmental		
Intended use Op Temperature Storage Temp Op Humidity MTBF MTBF Calc Method	Indoor outdoor within an enclosure -40 to 85 C -40 to 85 C 10 to 95% Non-condensing 172981 hours Parts Count Reliability Prediction	
Agency Approvals		
CE	Declaration of Conformity available For download	

Standard Range	Proprietary RF Range depends on various conditions
Frequency Band Transmitter Power Receiver Sensitivity RF Data Rate	Ranges up to 40 km are possible 869.4 to 869.65 (868 ) MHz 1mW, 23mW, 100mW, 158mW, 316mW -112dBm @ 24Kbps 24 Kbps
Duty Cycle Included Antenna	10% hourly duty cycle restriction
Connector	RP-SMA
Gain Horizontal Beam Impedance VSWR Length Polarization Other	3 dBi 360 degrees 50 Ohm < 2.0 21.9 cm Vertical Articulated to allowing it to be used vertically, at a right angle, or any angle in between
Security	
Number of Channels Addressing Encryption	Single Channel PAN ID, 64-bit addresses 128 bit AES
Software	
Programming OS Features	Zlinx Manager Software on CD Windows 2000, 2003 Server, XP, and and Vista AT Command Terminal Emulation RSSI Signal Range Test Modem Emulation
Ordering Information	
ZP8D-24RM-LR RM-LR824-KIT	868 MHz Long Range Radio Modem 868 MHz Radio Modem Kit Includes two radio modems, two 30W, 24V, DIN Rail Power Supplies, and one 6 foot serial cable for programming.
Power Supply	An external power supply is required but not included. Model DR-30-24 (30W, 24V, DIN Mount) should work in most applications.
DRPM25 High Gain Antennas	Panel Mount Adapter B&B Electronics has a full line of optional high gain antennas
Replacement Items	
ZP9D-ANT1 ZP9D-DIN1 ZP9D-TB1	Replacement antenna Replacement DIN clip and spring Replacement terminal block and DIP Switch cover



Yes

