

Model: ZP24D-250RM-SR, ZP24D-192RM-MR
 ZP24D-96RM-MR, ZP9D-192RM-MR
 ZP9D-115RM-LR, ZP9D-96RM-LR

Zlinx Wireless Radio Modems

**Industrial grade radio modems – easy to install and maintain,
 up to 40 mile range**

Description

Need to get a digital signal across a highway or river? Or just to the other end of your big warehouse? Zlinx radio modems can do the job faster, easier, and less expensively than stringing cable. Easy plug-and-play set-up saves installation and maintenance time.

These compact and rugged units are compatible with Modbus and Profibus so no additional converters are required.

Despite their low prices, these are not wimpy consumer or office products. Select the power level you need to punch through whatever distance and interference situations you encounter. Zlinx radio modems are built to handle the heat, cold, and environments of industrial operations.



Features

- RS-232/422/485, Serial communications
- Modbus compatible – no additional converters needed
- Ranges to 40 miles (64 km)
- Heavy duty DIN mount industrial grade case and components
- Frequency: ISM band, 902 to 928 MHz or 2.400 to 2.4385 GHz
- Modulation: FSK – Frequency Shift Keying
- Signal strength indicator aids trouble shooting
- 3 dBi for 900 MHz; 2.1 dBi for 2.4 MHz RPSMA male dipole
- Wide temperature range -40° to 85° C
- Versatile power: 10 to 48 VDC or 18 to 30 VAC
- 256-bit encryption (Model ZP9D-115RM-LR)
- Software for Win 98, ME, 2K, and XP included for ease of configuration

Benefits

- DIN rail mount – saves panel or cabinet space.
- Constant signal strength feedback – during installation and troubleshooting later.
- Rugged circuitry, wide temperature – for indoor and outside applications.
- Handles most industrial control power configurations and power supplies.
- Immediate integration into cUL, CSA approved panels.



B&B electronics
 MANUFACTURING COMPANY

International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
 815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
 +353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-europe.com support@bb-europe.com

Specifications

	ZP24D-250RM-SR	ZP-9D-192RM-MR ZP9D-96RM-MR	ZP24D-192RM-MR ZP24D-96RM-MR	ZP9D-115RM-LR
RF Properties				
Standard	IEEE 802.15.4	Proprietary Radio	Proprietary Radio	Proprietary Radio
Range(with included antenna)	up to 300 feet indoor or 1 mile outdoor	up to 1500 feet indoor or 7 mile outdoor	up to 600 feet indoor or 3 mile outdoor	up to 3000 feet indoor or 14 miles outdoor
Frequency	2.4 GHz	900 MHz	2.4 GHz	900 MHz
Transmit Power	100mW	100mW(900MHz)	50mW(2.4GHz)	1W
Software				
Support	Win 98, ME 2K, XP			
Features	AT Command Terminal emulation RSSI signal range test Modem emulation			
Included Omni Antenna	2.1 dBi	3 dBi	2.1 dBi	3 dBi
Antenna Connector	External Reverse Polarity SMA male jack connector, omni directional (included with product)			
Serial Settings				
Baud	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	1200, 2400, 4800, 9600, 19200, 38400, 57600	1200, 2400, 4800, 9600, 19200, 38400, 57600	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400
Data bit; Parity; Stop bit	8 only; none only; 1 only	7, 8; None, even, odd, mark, space; 1, 2	7, 8; None, even, odd, mark, space; 1, 2	7, 8; None, even, odd, mark, space; 1, 2
RS-232	DB9F DCE or Terminal Block (TX, RX, GND available on Terminal Block)			
RS-422	Removeable terminal block, 2 or 4 wire - TX+, TX-, RX+, RX-, GND, 120 Ohm Dipswitch selectable			
RS-485	Removeable terminal block, 2 or 4 wire - TX+, TX-, RX+, RX-, GND, Bit wise, 120 Ohm Dipswitch selectable			
Wireless link failure	Removeable terminal block, Open collector, dry contact, 40mA			
Power Supply	10-48 VDC, 18-30 VAC, Removeable terminal block			
Power Consumption	2.0 W max	1.5W max	1.5W max	5.0W max
Dimensions	1.2W x 3.3D x 4.7H			
Environmental				
Operating Temperature	-40 to 85°C			
Storage Temperature	-40 to 85°C			
Operating Humidity	10 to 90% non-condensing			
Enclosure Rating				
Rating	IP30			
Mounting	DIN rail mount, 35mm			
LED Status	Power, Signal Strength, Wireless Data			
Certifications				
FCC	FCC Part 15 Class B			
CE	CISPR (EN55022) Class B EN61000-6-1 Generic Standards for Residential, Commercial, & Light Industrial EN61000-4-2-ESD, EN61000-4-3 RFI, EN61000-4-4 EFT, EN61000-4-5 Surge, EN61000-4-6 CI, EN61000-4-8 Power Frequency Magnetic, EN61000-4-11 Voltage Dips & Interruptions			
UL	UL, cUL	UL, cUL	UL, cUL	UL, cUL, Class 1 Div 2
RoHS directive (lead free)	Yes			



International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
+353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-europe.com support@bb-europe.com

**Special Instructions for Installation and Operation
in a Class 1 Div 2 Environment**

When this device is operated in a Class 1 Div 2 environment, the following PRECAUTIONS and WARNINGS must be observed:

1. Power, input and output (I/O) wiring must be in accordance with Class 1 Division 2 wiring methods [Article 501.10(B) of the National Electrical Code, NFPA 70] and in accordance with the authority having jurisdiction.
2. WARNING – EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2.
3. WARNING – EXPLOSION HAZARD – WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.
4. WARNING – EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.



International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
+353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-europe.com support@bb-europe.com