Zlinx[™] Wireless Radio Modems – Industrial, IP30, indoor/outdoor

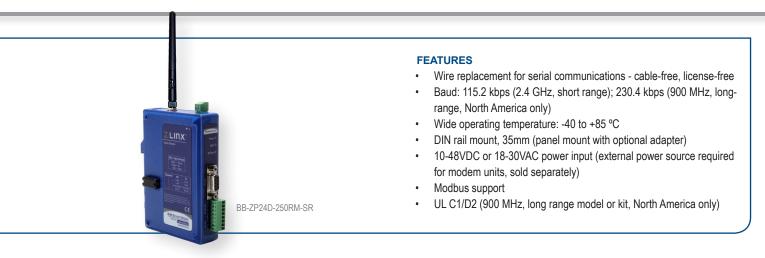
Models: BB-ZP24D-250RM-SR, BB-ZP9D115RMLR-A, BB-RM-LR-KIT, BB-RM-SR-KIT

B+B SMARTWORX

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Do you need to get a digital signal across a highway or river or to the other end of a big warehouse? Zlinx industrial serial radio modems can do the job faster, easier and less expensively than stringing cable. Zlinx radio modems connect serial devices over a wireless network with easy plug-and-play set-up that saves installation and maintenance time and cost. Modbus and Profibus compatible – no additional converters required.

NETWORK CONFIGURATION OPTIONS

Serial-to-Serial Connectivity: Two or more serial (RS-232/422/485) devices connected over a wireless network via Zlinx Radio Modems. One radio modem required per serial device (all radio modems must be of same frequency).

Modbus I/O Connectivity: Analog, digital and temperature I/Os (up to 247 base I/O modules, of one frequency type) can be connected wirelessly to a Modbus RTU Master (PLC, SCADA, HMI) via a Zlinx Radio Modem of the same frequency.

INDUSTRIAL-GRADE

Zlinx radio modems are designed to handle the heat, cold and environments of industrial operations and feature a wide operating temperature, dual power, a heavy-duty IP30 DIN mount case, industrial components and circuitry. UL Class 1/Division 2 rated (900 MHz model).

Model BB-ZP9D115RMLR-A (North America only) supports an indoor maximum range of 91 m (3000 ft) and outdoor maximum range of 22.5 km (14 mi). Includes RPSMA male dipole antenna.

Model BB-ZP924D-250RM-SR supports an indoor maximum range of 91m (3000 ft) and outdoor maximum range of 1.6 km (1 mi).

POWER SOURCE

10 to 48 VDC or 18 to 30 VAC wide range power input options. External power source required:

_Stand-alone radio modems do not include power supply (sold separately). _Each kit includes (two each): radio modems, power supplies, cables.

ORDERING INFORMATION¹

MODEL NUMBER	DESCRIPTION	
BB-ZP24D-250RM-SR	Zlinx Radio Modem 2.4 GHz, Short Range, RS-232/422/485	
BB-ZP9D115RMLR-A ²	Zlinx Radio Modem 900 MHz, Long Range, RS-232/422/485	
BB-RM-LR-KIT ³	Long Range Starter Kit, 900 MHz, Radio Modem	
BB-RM-SR-KIT ^{2,3}	Short Range Starter Kit, 2.4 GHz, Radio Modem	

Note 1: Order one radio modem for each serial device that you want to connect (use same frequency).

Note 2: 900 MHz model for North America only.

Note 3: Kits contain: (2) radio modems, (2) 24VDC 30W power supplies, (2) 1.8 m (6 ft) serial cables

World-wide. Check with your local distributor for availability and options.

ACCESSORIES - sold separately BB-MDR-20-24 – 24W, 24VDC, 1A, DIN Power Supply, Slim Case BB-ZP9D-ANT1 – 900 MHz Spare Antenna BB-ZP94D-ANT1 – 2.4 GHz Spare Antenna BB-ZP9D-DIN1 – Replacement DIN Clip Kit BB-DRPM25 – Panel Mount Adapter

> All product specifications are subject to change without notice. BB-ZP9Dx & BB-ZP24Dx WirelessRadioModems_4918ds



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Models: BB-ZP24D-250RM-SR, BB-ZP9D115RMLR-A, BB-RM-LR-KIT, BB-RM-SR-KIT

BB-ZP9D115RMLR-A (North America only)

SPECIFICATIONS

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MODEL NUMBER:	BB-ZP24D-250RM-SR	BB-ZP9D115RMLR-A (North America only)		
RF PROPERTIES				
Standard	IEEE 802.15.4	Proprietary Radio		
Range (with included antenna)	Up to 91 m (3000 ft) indoor, or 1.6 km (1.0 mi) outdoor	Up to 91 m (3000 ft) indoor, Up to 22.5 km (14 mi) outdoor		
Frequency	2.4 GHz	900 MHz		
Transmit Power	10 mW (max)	1W (selectable)		
SOFTWARE				
O/S Support	Windows XP, 7, 8, 8.1, 10			
Features	RSSI signal range test modem emulation			
INCLUDED OMNI ANTENNA				
dBi	2.1 dBi	3 dBi		
Antenna Connector	External Reverse Polarity SMA	male jack connector, omni directional (included with product)		
SERIAL PROPERTIES				
Baud	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	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		
RS-232	DB9F DCE or Terminal Block (TX, RX, GND available on Terminal Block			
RS-422	Removable terminal block, 2- or 4-wire: TX+, TX-, RX+, RX-, GND, 120 Ohms, Dip Switch selectable			
RS-485	Removable terminal block, 2- or 4-wire: TX+, TX-, RX+, RX-, GND, bit-wise, 120 Ohms, Dip Switch selectable			
Wireless Link Failure Output	Removable terminal block, source (PNP) transistor output, 40mA			
POWER				
Power Source	External, required (not included	with radio modem units; included in kits)		
Power Supply	10-48 VDC, 18-30 VAC, removable terminal block			
Power Consumption	2.0W, maximum	5.0W, maximum		
DIMENSIONS				
Enclosure	3.1W x 8.4D x 11.4H cm (1.2W x 3. 3D x 4.7H in)			
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			
MEANTIME BETWEEN FAILUR				
MTFB	BB-ZP24D-250RM-SR: 1108125 hours BB-ZP9D115RMLR-A: 1137313 hours			
REGULATORY, APPROVALS, DIRECTIVES, STANDARDS				
CE (2.4 GHz models only, BB-ZP24D-250RM-SR and BB-RM-SR-KIT) FCC Part 15 GFR Title 47 – Digital Apparatus (Federal Communications Commission) ICES-003 Class B – Digital Apparatus (Industry Canada)				
ICES-UUS Class B – Digital Appa	ETSI EN 301 489-1 v1.9.2			
	ETSI EN 301 489-1 v2.2.1	he specific requirements of EMC and Radio Spectrum Matters: Broadband Data Systems		
	EN 55032 Class B – Electroma	gnetic Compatibility of Multimedia Equipment – emission requirements		
CE		mission Standard for Residential, Commercial and Light-industrial Environments nity Standard for (heavy) Industrial Environments		
(Models BB-ZP24D-250RM-SR, BB-RM-SR-KIT only)	SAFETY: EN 60950-1 +A11 +A1 +A12 +A EN 62479 – RF Exposure Limit	A2 - Information Technology Equipment - Safety - Part 1: General Requirements s		
	ENVIRONMENTAL: IEC 60068-2-6 – Vibration, 10-5 IEC-60068-2-27 – Shock, 50G IEC-60068-2-32 – Drop, 10 tota sides, edges and corner	peak, 3 axes		
UL	UL508 (E222870) (all models) UL Class 1/Division 2 (E245458) (Model# BB-ZP9D115RMLR-A only)			



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