

Serial RF Radio 50mW – Industrial  
Part no. EZ500B



The EZ500B is a light-industrial grade serial RS232 RF radio modem with a high power output of 500mW allowing an extra long communication range of up to 9800 feet. It will allow you to send and receive wireless serial data between two serial devices or computers.

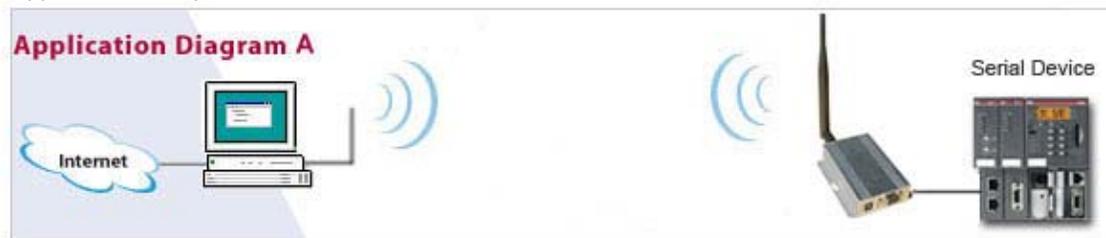
The advantage of a serial RF radio such as this is that it can be used without an operating system as a host. An operating system is only required to configure the parameters of the radio.

The parameters can be configured through the serial port of the radio by using the downloadable configuration utility. If your computer does not have an available COM port we strongly recommend using a high quality USB to serial adapter such as our part XS8801 for configuring the parameters.

This radio works in the unlicensed 915Mhz frequency band so no radio license is required.

It is ideal for most types of wireless serial communication of manufacturing machinery, CNC's, PLC's, printers, bar-code scanners or even home automation control.

Application example:



| Pin no. | RS232 DB9 Male |       |
|---------|----------------|-------|
| 1       | -              |       |
| 2       | TX             | Red   |
| 3       | RX             | Green |
| 4       | -              |       |
| 5       | GND            |       |
| 6       | -              |       |
| 7       | -              |       |
| 8       | -              |       |
| 9       | -              |       |

**Please download drivers and user guides for this product from:**

**[www.USconverters.com](http://www.USconverters.com)**

To access technical support, please visit the U.S. Converters website at:  
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Feel free to contact our technical support team at [mail@usconverters.com](mailto:mail@usconverters.com) with any issues.  
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| SPECIFICATIONS                              |  |
|---|--|
| Model number                                | EZ500B   |
| Operating system for configuration software | Windows XP, Vista, 7, 8, 10  |
| Interface                                   | RS232, DB9 Female  |
| RF power                                    | 500mW/ 27dBm   |
| Frequency range                             | 912 - 915Mhz   |
| Number of channels                          | 32 (radios sold after Oct 01/2017)<br>8 (radios sold before Oct 01/2017)       |
| Baud rates                                  | 1200, 2400, 4800, 9600, 19200, 38400bps  |
| Parity                                      | None, Even, Odd  |
| Stop bits                                   | 1  |
| Buffer size                                 | 512 bytes  |
| Typ communication range                     | 3000m (9800 feet) at 1200Bps   |
| Data bits                                   | 8 (6 and 7 bits not supported)   |
| Processor                                   | Atmel ATMEGA8L   |
| Modulation                                  | GFSK   |
| Receiver sensitivity                        | -123dBm  |
| Receiving current                           | less than 45mA   |
| Transmitting current                        | less than 360mA  |
| Sleep Current                               | less than 1mA  |
| Size  | 91 × 64 × 23mm   |
| Power supply                                | 4.5V -5.5VDC by USB or other external power source. Minimum 200mA recommended. |
| Working temperature                         | -4°F to 167°F (-20°C to 75°C)  |
| Antenna                                     | 50 ohm SMA male, magnetic base, 3 feet cord                                    |