

8 | Configure and Wire to Match Serial Devices

Configure serial settings on the **Basic Modem Settings** tab to match your serial device.

Configure the DIP Switch to match your serial device.

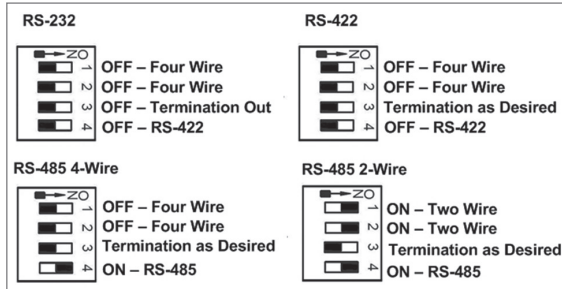


Figure 5. Serial Settings - DIP Switch Configuration

(Wiring examples are located in the manual. See Step 4 for terminal block layout.)

Terminal Block Signal Direction:

- o RS-232 (modem is a DCE device):
TD – Input, RD – Output, RTS – Input, CTS – Output.
- o RS-422/485 Four Wire:
TDA(-)/TDB(+) – Output, RDA(-)/RDB(+) - Input
- o RS-485 2-Wire :
A(-) and B(+) Signals are tied together by the DIP Switch and are bi-directional.

You are now ready for field installation.

9 | UL Class 1 / Division 2

THIS APPARATUS IS SUITABLE FOR USE IN CLASS 1, DIVISION 2, GROUPS A, B, C AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

CET APPAREIL EST CONÇU POUR ÊTRE UTILISÉ DANS DES ENDROITS DANGEREUX DE CLASSE 1, DE DIVISION 2, DE GROUPES A, B, C ET D OU DANS DES ENDROITS NON HASARDEUX.

WARNING – EXPLOSION HAZARD – WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING ANTENNA.

AVERTISSEMENT - RISQUE D'EXPLOSION - LORSQU'IL EST DANS DES ENDROITS DANGEREUX, COUPER L'ALIMENTATION AVANT DE REMPLACER L'ANTENNE.

WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2.

AVERTISSEMENT - DANGER D'EXPLOSION - LA SUBSTITUTION DE TOUT COMPOSANT PEUT ENTRAÎNER UNE ADÉQUATION À LA CLASSE 1, DIVISION 2.

Use Copper Conductors Only.

Utilisez uniquement des conducteurs en cuivre.

For field installed conductors; Use conductors rated 60/75°C only.

Pour les conducteurs installés sur le terrain; Utilisez des conducteurs de 60/75 ° C seulement.

When conduit openings are not being used, a R/C plug (QCRV2) shall be used.

Lorsque les ouvertures des conduits ne sont pas utilisées, une prise R / C (QCRV2) doit être utilisée.

See Instruction Manual for additional information.

Voir le manuel d'instructions pour plus d'informations.

RECOMMENDATION – It is recommended to inspect the sealed relay device periodically and to check for any degradation of the materials and to replace the component product, not the sealed device, if any degradation is found.

Sealed Relay Device Information:

Sealed Device: Relay Models G6RL-14-ASI-DC5, G6RL-14-ASI-DC6, G6RL-14-SR-ASI-DC5 or G6RL-14-SR-ASI-DC6 manufactured by Omron Corp.

| | MANUFACTURER | TYPE |
|---------------------|---------------------------------------|----------------|
| Relay Case and Base | Mitsubishi Engineering Plastics Corp. | 5010GN6-30M8AM |
| Sealant | Three Bond Ltd. | TB2225G |

QUICK START GUIDE



ZXT24-RM or ZXT9-RM

Zlinx™ Xtreme Radio Modem

Before you begin, be sure you have the following:

- + Zlinx Radio Modem (ZXT24-RM or ZXT9-RM)
- + CD (w/Zlinx Manager Software, Manual)
- + Mounting Ears and Hardware
- Required - sold separately:**
- + 10-30 VDC Power Supply (not included)
- + USB Cable (not included)
- + Conduit Mounting Accessories (not included):
 - _ Conduit Accessories
 - _ Cable Gland

Recommended Accessories

IP67 Power Supply, 24VDC, 60W
Panel Mount
CLG-60-24

Conduit Mounting Kit
ZXTMT



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1 Install Zlinx™ Manager Software

Insert the CD into your CD ROM Drive. The Zlinx™ Manager Install Wizard should start. Follow the on-screen instructions to install the software.

If Auto Run is disabled, locate the **ZlinxMgr.exe** file on the CD-ROM drive and double click to launch it. The **Install Wizard** should start. Follow the on-screen instructions.

2 Install USB Drivers

Connect the device to the USB port on your PC.

The “**Found New Hardware Wizard**” will guide you through the installation process.

When prompted to connect to Windows Updates to search for drivers, select “No, not at this time” and follow the instructions for installing from the CD or the location on the hard drive.

Choose the drivers manually from the CD or the location where Zlinx™ Manager Software is installed.

When the driver is installed, a new COM port labeled “Xtreme” will show up in Windows Device Manager.

3 Power Connection, TB, Antenna

Connect the power supply to the PWR IN +/- terminals on the terminal block.

Connect the supplied antenna to the RPSMA connector.

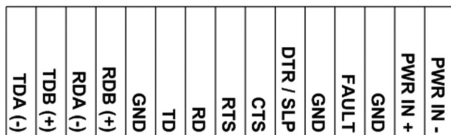


Figure 1. Terminal Block - located inside enclosure

Operating Voltage – 10 to 30 VDC

Maximum Surrounding Ambient Air Temperature - 74°C

See Section 9.

4 Start Zlinx™ Manager Software

Start the Zlinx™ Manager Software.

Click on the **Radio Modem** link.

Click the **Radio Modem Configuration** link.

Select the correct COM port and configure it for: 9600 baud, Data Bits: 8, Parity: None, Stop Bit: 1.

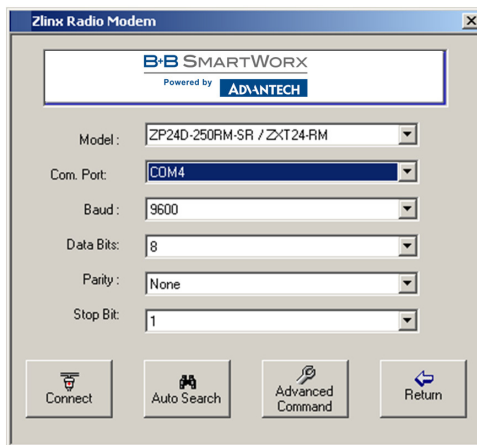


Figure 2. Communication Parameters Screen

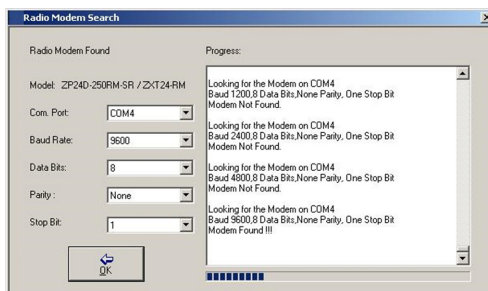
Click the **Connect** button.

If the modem is not found, the **Auto Search** button can be used to locate the modem. The auto search will use a sequence of COM ports and settings until the response is received. If there is still no response, double check the power supply and USB cable. Also, make sure that no other devices are attached wired or wirelessly.



Figure 3. Radio Modem Not Found Screen

When the software locates the Radio Modem and you click the **OK** button, the **Basic Modem Settings** screen will be displayed.



The **Basic Modem Settings** screen will display the Model Number, Function Set Type, Firmware Version, Channel Number, Network Identifier, Destination Address and Baud Rate.

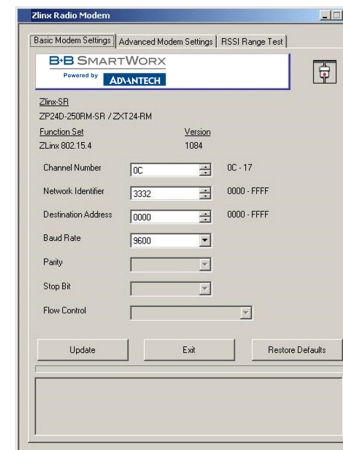


Figure 4. Basic Modem Settings Screen

5 Set Up the First Radio Modem

Select a unique **Network Identifier**. This is especially important if you have other units operating in the same area.

Set the **Destination Address** to FFFF (broadcast) (for ZXT9-RM connecting to Xtreme I/O).

If desired, you can change the baud rate and parity on the **Basic Modem Settings** screen. Remember to change your COM port to match.

Click the **Update** button to store the settings.

Click the **Advanced Modem Settings** tab. Check the Power Level (PL). Select the appropriate power level for your application. For bench testing, PL should be set to 0 and Radio Modems should be separated by at least 1 meter. When using higher power levels, separate the modems by at least 7 meters.

If you changed any settings, store them by clicking the **Update** button.

6 Set Up the Second Radio Modem

Click the **Exit** button. Power off the Radio Modem.

Configure your second Radio Modem using the same procedure. Do not proceed to the **RSSI Range Test** step until you have a second modem configured. Two properly configured units are required to proceed to the next step.

Configure the second unit with the same settings.

7 RSSI Range Test

Set the remote modem to **Loopback Mode**. Loopback connections can be made using the RS-422/485 interface by setting switch 1 and 2 to ON and 3 and 4 to OFF (internal loopback with Echo On).

On the Radio Modem that is NOT set up for Loopback Mode, run the **RSSI Range Test**. Observe the following indications:

The RD, TD and RSSI LEDs will flash as data is sent between the two units.

Test results will be displayed on the **RSSI Range Test** screen.