



Thank you for purchasing the FreeWave ZumLink™ Z9-PE.

This **Quick Start Guide** provides procedures for the hardware connection and configuration of the ZumLink Z9-PE.

For detailed information about the ZumLink Z9-PE, download the **User Manual** (LUM0076AA) from <http://support.freewave.com/>.

**Warning!** The ZumLink Z9-PE is sold as a fully enclosed device, assembled at the FreeWave factory. Opening the ZumLink Z9-PE device voids the FreeWave warranty.

### ZumLink Z9-PE Included Equipment

The ZumLink Z9-PE package contains these items:

Qty	Description
1	ZumLink Z9-PE wireless device
1	Power Cable w/ flying leads (FreeWave Part Number: ASC0003ZL)
1	ZumLink Z9-PE Quick Start Guide

### User-supplied Equipment

- USB to micro-USB cable
- Ethernet cable
- FCC approved antenna for the ZumLink Z9-PE.

### Powering the ZumLink Z9-PE

The ZumLink Z9-PE is approved to operate with an input voltage range of +6 to +30VDC.

**FREEWAVE Recommends:** A dedicated power supply line is preferred. The power supply used **MUST** provide more current than the amount of current drain listed in the specifications for the product and voltage.

**Warning!** Use electrostatic discharge (ESD) protectors to protect the radio from electric shock and provide filtered conditioned power with over-voltage protection.

### Hardware Installation

#### ZumLink Z9-PE Connections

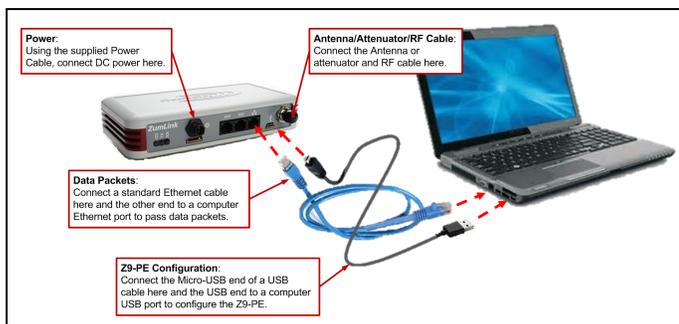


Figure 1: ZumLink Z9-PE Connections

### ZumLink Z9-PE CLI Configuration

This procedure provides a Tera Term terminal connection to the ZumLink CLI. The basic steps are:

- Connect the ZumLink Z9-PE to the Computer (on page 1)
- Tera Term Activation & ZumLink Z9-PE Setup (on page 2)

**Note:** The images in this procedure are for Windows® 7 and/or Firefox®. The dialog boxes and windows appear differently on each computer.

### Connect the ZumLink Z9-PE to the Computer

- Connect the ZumLink Z9-PE to all four connections as shown in **Figure 1**. The **AutoPlay ZumLink**, **AutoPlay FreeWave Drivers**, and ZumLink windows open.



Figure 2: AutoPlay ZumLink window



Figure 3: AutoPlay FreeWave Drivers window

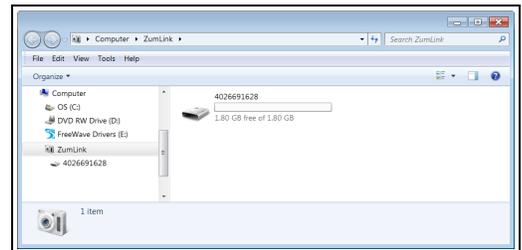


Figure 4: ZumLink window

**Important!:** The ZumLink driver installs automatically.

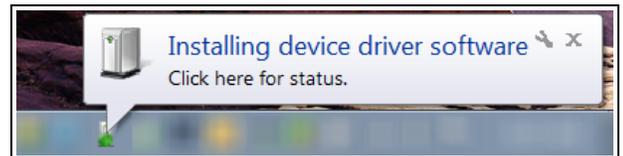


Figure 5: Installing Driver message

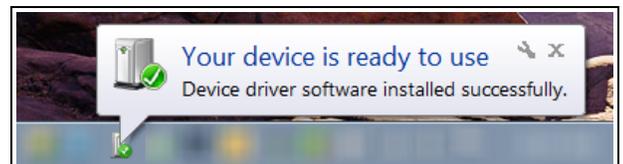


Figure 6: Driver ready to use message

- Continue with **Tera Term Activation & ZumLink Z9-PE Setup** (on page 2).

## Tera Term Activation & ZumLink Z9-PE Setup

**Note:** The images in this procedure are for Windows® 7 and/or Firefox®. The dialog boxes and windows appear differently on each computer.

1. On the computer connected to the ZumLink Z9-PE, open a terminal program (e.g., Tera Term <http://tssh2.osdn.jp/>).
2. In Tera Term, on the **File** menu, select **New Connection**.

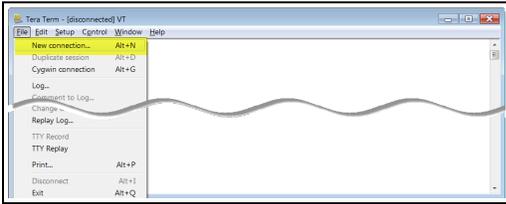


Figure 7: File menu > New Connection

The Tera Term New Connection dialog box opens.

3. Click the **Port** list box arrow and select the COM port the ZumLink device is connected to.

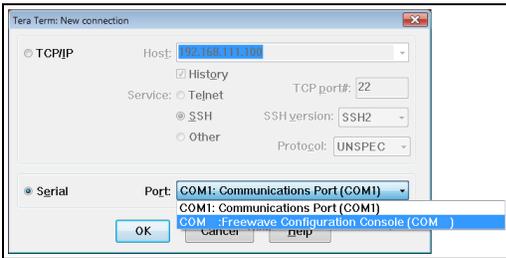


Figure 8: Select the ZumLink Z9-PE COM port

**Important!:** The **Port** assignment varies from computer to computer.

4. Click **OK** to save the changes and close the dialog box. The Tera Term window shows the connected COM port and Baud rate in the title bar of the window.
5. In the Tera Term window, click the **Setup** menu and select **Serial Port**.

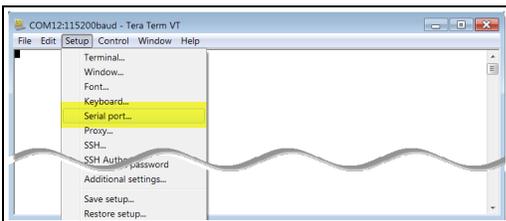


Figure 9: Serial menu > Setup Port

The Tera Term: Serial Port Setup dialog box opens with the default ZumLink settings.

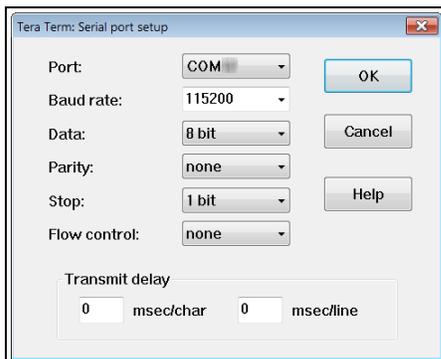


Figure 10: Tera Term: Serial Port Setup dialog box with default settings

6. Verify the COM port settings are:
  - Baud Rate:** 115200
  - Data:** 8 bit
  - Parity:** none
  - Stop:** 1 bit
7. Click **OK** to save the changes and close the dialog box.
8. In the Tera Term window, press <Enter>. The ZumLink CLI Login returns.
9. Type **admin** to login and press <Enter>.
10. When prompted, type **admin** for the password and press <Enter>.

**Note:** The password does not appear when typing - it looks blank.

The **FreeWave Shell** returns.

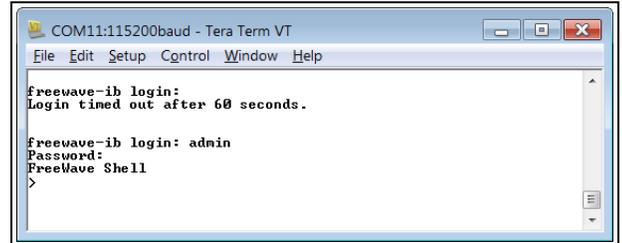


Figure 11: The FreeWave Shell returns.

11. At the > prompt, type **ip\_address=192.168.1.nnn** and press <Enter>.
12. At the > prompt, type **nodeld=nnn** and press <Enter>.
13. At the > prompt, type **save** and press <Enter>.

**Note:** Where **nnn** = the same unique 3 digit number.

### Learn More

For additional product information about the ZumLink Z9-PE, visit <http://support.freewave.com/>.

For additional assistance, contact a local reseller, or contact FreeWave Technologies, Inc. at 303.381.9200 or 1.866.923.6168, or by email at [moreinfo@freewave.com](mailto:moreinfo@freewave.com).

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The ZumLink Z9-PE complies with FCC Part 15 rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference and 2) this device must accept any interference received, including interference that may cause undesired operation.

The ZumLink Z9-PE must be professionally installed and is only approved for use when installed in devices produced by FreeWave or third party OEMs with the express written approval of FreeWave Technologies, Inc. Changes or modifications should not be made to the device.

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