



ZW-9 Z-Wave® Interface Module

Quick Reference Guide



FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.

FC Contains:
FCC ID: D87-ZM5304-U
IC ID: 11263A-ZM5304

DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website. (www.rticorp.com/declaration-of-conformity)

Safety Suggestions

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Power Sources. Use only power sources of the type described in the operating instructions, or as marked on the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Limited Warranty

RTI warrants its products for a period of one (1) year (90 days only for included battery packs); or for a period of time compliant with local laws when applicable from the date of purchase from RTI or an authorized RTI distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required.

Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: www.rticorp.com

For general information, contact RTI at:
Remote Technologies Incorporated
5775 12th Ave. E Suite 180
Shakopee, MN 55379
Tel. (952) 253-3100
Fax (952) 253-3131
info@rticorp.com

Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready, or provide it in your e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

Please do not return products to RTI without a return authorization.

The ZW-9 utilizes Z-Wave wireless communication to control and monitor Z-Wave enabled products such as lights, door locks, shades, thermostats and more via an RTI control system. The built-in antenna and Ethernet port with PoE enable easy installation in new or retrofit installations.

Key Features

The ZW-9 provides superior quality and reliability as well as these specific features:

- Wireless control and monitoring of Z-Wave lighting devices via the RTI control system.
- Certified as a Z-Wave Plus product, ensuring seamless interoperability with Z-Wave devices.
- Compatible with a broad range of Z-Wave certified electronics including door locks, security devices, window shades, thermostats and more.
- Expandable and scalable system allows control of more than 200 devices.
- Programmed using RTI Integration Designer software.
- Powered via PoE (Power over Ethernet) or included power supply.

Product Contents

Contents within the box include the following items:

- One (1) ZW-9 Z-Wave Interface Module
- One (1) ZW-9 mounting bracket
- One (2) Screws (#6-32 x .75") and drywall anchors
- One (1) 5VDC/2A power supply
- One (1) Quick reference guide
- One (1) Ethernet MAC address card

Installation & Operation

Mounting

The ZW-9 should be located on a secure, flat surface such as a shelf, cabinet or wall, away from other electrical equipment.

- 1) Install ZW-9 mounting bracket:** Anchor the ZW-9 mounting bracket using the two (2) #6-32 flathead screws. Wall mounted installations may require the drywall anchor kit (included).
- 2) Attach ZW-9 to mounting bracket:** Align mounting holes located on backside of ZW-9 with mounting bracket tabs and slide the unit downward until snug.

Powering the ZW-9

The ZW-9 can be powered using the included power supply or Power over Ethernet (PoE).

- **Power Supply:** Plug the power supply (+5VDC, 2A) to the power jack.
- **Ethernet Port (Power over Ethernet):** Wire a Cat-5 cable from the ZW-9 Ethernet Port to an 802.3af compliant PoE switch (Class #2). NOTE: Using a non-compliant PoE device may damage the ZW-9.

Communication

The ZW-9 communicates with an RTI XP series control processor via an Ethernet network (LAN).

- 1) Connect to the Ethernet network:** Connect a Cat-5 cable to the ZW-9 Ethernet port and the LAN router/switch. The ZW-9 will receive an IP address from the network router via DHCP. The "NET LINK" LED on the front of the ZW-9 will blink to indicate a connection to the LAN.
- 2) Add ZW-9 to the Integration Designer system file:** Open the Integration Designer system file, click on the XP processor and add the ZW-9 as an expansion device under the "Expansion" tab.
- 3) Enter the MAC address of the ZW-9:** Click on the ZW-9 and select "Edit Expansion Device" and follow the directions on the screen. (The ZW-9 MAC address can be found on a card in the ZW-9 packaging).

Ethernet Settings (IP Address)

Setting a static IP address on the ZW-9 is unnecessary and not recommended. For information on IP address settings, visit the ZW-9 product support webpage located on the RTI dealer website.

NOTE: If static IP address settings are incorrect the ZW-9 will not operate.

How to reset ZW-9 to DHCP

If the ZW-9 is not functioning or is not accessible via the LAN it may be necessary to reset the unit to DHCP.

- 1) Press and hold the RESET button.**
- 2) Power the ZW-9 with the power supply.**
- 3) Hold the RESET button for 5 seconds.**



Z-Wave Network Configuration Quick Reference

For complete instructions on Z-Wave network setup and device programming using the RTI Integration Designer programming software, visit the ZW-9 product support webpage located on the RTI dealer website.

Product Inclusion

Start the Add/Include process by selecting Device-Add/Include from the Z-Wave Manager main menu or by selecting the Add/Include button on the main toolbar. It may take a few moments for the device to show up in the list depending on how many devices are already in the network and what type of device is being added. When a device is successfully added you will also hear a beep sound from the computer (if PC sound is enabled).

Product Exclusion

Start the Remove/Exclude process by selecting Device-Remove/Exclude from the Z-Wave Manager main menu or by selecting the Remove/Exclude button on the main toolbar. Once the dialog box appears, activate the exclude process on the device (see the device documentation for more details). As devices are removed from the Z-Wave network they are removed from the Z-Wave Manager Device List.

ZW-9 Learn Mode

If the ZW-9 is going to be installed in a Z-Wave network with an existing controller, follow these steps to set the learn mode as the primary or secondary controller.

Adding the ZW-9 as the Primary Controller

First activate the "include" process on the existing Primary Controller. In the Z-Wave Manager software, select the "Become Primary" Learn Mode on the Controller toolbar to activate the ZW-9.

Adding the ZW-9 as a Secondary Controller

First activate the "include" process on the existing Primary Controller. In the Z-Wave Manager software, select the "Become Secondary" Learn Mode on the Controller toolbar to activate the ZW-9.

The Lifeline Association Group

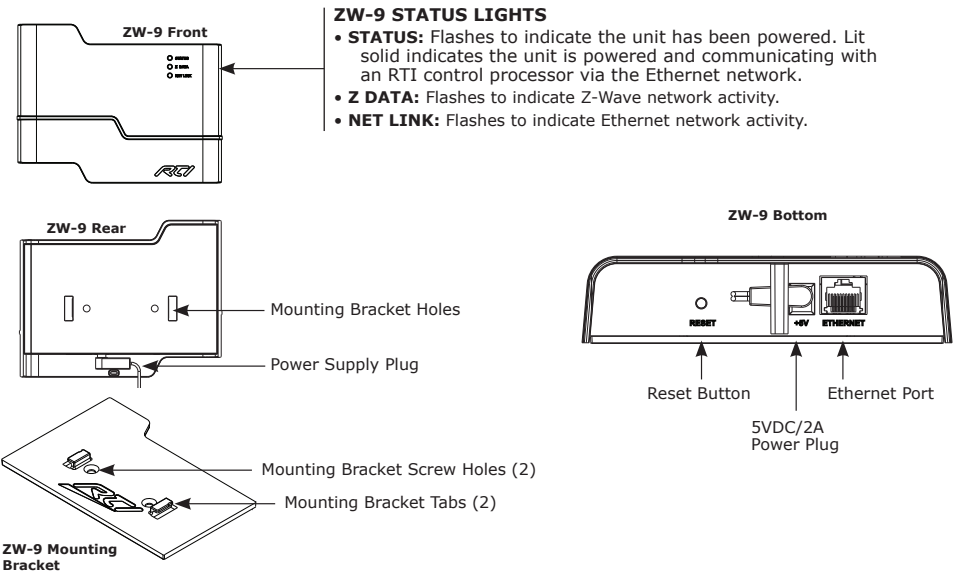
The ZW-9 supports the Lifeline Association Group. This enables the RTI control system to receive the critical notifications from Z-Wave devices in the network. Z-Wave Plus devices are automatically associated with the ZW-9 as each is added to the network. Therefore, when a frame is received such as from a smoke alarm, it is passed on to the XP processor for use within the RTI system. The Lifeline Signals are processed just like unsolicited messages.

ZW-9 Reset to Defaults Description

NOTE: Use the reset procedure only when the primary controller is missing or inoperable.

Start the ZW-9 reset process by selecting Reset Controller/Start New Installation from the Z-Wave Manager main menu or by selecting the Reset Controller/Start New Installation button on the main toolbar. The ZW-9 will become the primary controller, all Z-Wave devices will be removed from its memory and a new HomeID will be assigned.

ZW-9 Reference



ZW-9 STATUS LIGHTS

- **STATUS:** Flashes to indicate the unit has been powered. Lit solid indicates the unit is powered and communicating with an RTI control processor via the Ethernet network.
- **Z DATA:** Flashes to indicate Z-Wave network activity.
- **NET LINK:** Flashes to indicate Ethernet network activity.

Example Wiring Diagram

