

# Operation Guide

*It's Under Control®*

## ZB-Pro

Professional 2.4GHz  
Network Management Tool



70-210062-18 V1.0

### FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

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.



117 612 914

**Contains: FCC ID: MMURTI1300**

**Contains: IC (Canada): 3166A-RTI1300**

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## **INTRODUCTION**

The ZB-Pro is a Professional Network Management Tool for use with RTI 2.4GHz wireless ZigBee® networks. Attached to a standard USB port of a PC, the ZB-Pro communicates with ZM-24 Transceiver Modules via 2.4GHz RF. It can be used for several purposes which are enabled automatically by the specific *Integration Designer®* software function that is being used.

Some of these functions include:

- Downloading firmware into a ZM-24 2.4GHz Transceiver Module.
- Downloading network configuration into a ZM-24 2.4GHz Transceiver Module.
- Troubleshooting ZigBee® wireless networking issues.

## **PRODUCT CONTENTS**

Contents within the box include the following items:

- One (1) ZB-Pro 2.4GHz Network Management Tool.
- One (1) ZB-Pro Operations Guide.
- One (1) 6" USB A-A extension cable.

## **SOFTWARE REQUIREMENTS**

The recommended minimum system requirements needed to run the *Integration Designer®* software are as follows:

- Windows XP®, Windows Vista® or later version Microsoft operating system.

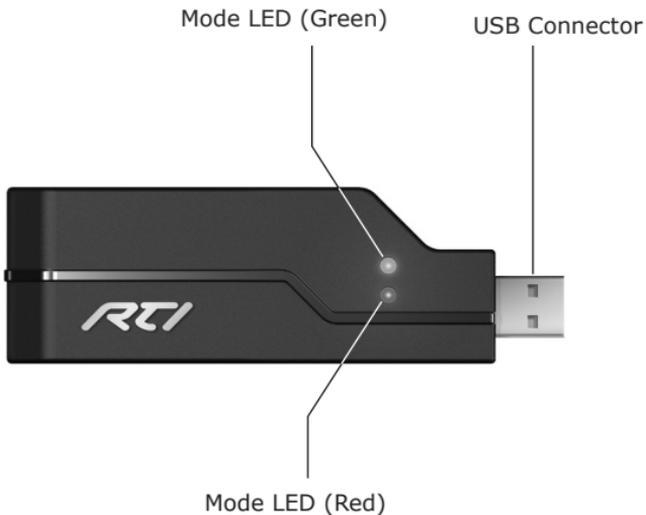
### FEATURES

The ZB-Pro incorporates many features that enable it to assist with the setup of the RTI 2.4GHz ZigBee® network.

- Updates the firmware in the ZM-24 Transceiver Module.
- Downloads network configuration data into a ZM-24.
- Designed to aid ZigBee® wireless network troubleshooting.
- No external power supply is required. Power is derived directly from the USB port.
- Feedback LEDs confirm various operations.
- Compact, rugged design.
- Available only to professional systems integrators.
- Two year parts and labor warranty.

## FEATURES

### PRODUCT REFERENCE



### OPERATION

Follow these steps to configure or update a ZM-24 Transceiver Module using the ZB-Pro:

1. Insert the ZB-Pro into an available USB port of a PC running Windows XP® or higher.
2. Start the *Integration Designer*® software program.
3. Place the powered RTI ZM-24 Transceiver Module within 10 feet (3m) of the ZB-Pro.
4. Open the *Integration Designer*® “Communications” menu and click on the “Configure ZM-24 Wireless Repeater”.
5. Follow the *Integration Designer*® wizard instructions for the specific operation being performed.

### OPERATION NOTES:

- A longer USB extension cable may be used to bring the ZB-Pro closer to a ZM-24.

## SPECIFICATIONS

Power Requirements	Powered directly from USB port
RF Frequency Range	2.4 GHz
Wireless Networking	IEEE 802.15.4 (ZigBee® Wireless Mesh Networking)
Operating Temperature	+32F to +122F (+0C to +50C)
Operating Humidity	5% to 95% non-condensing
Dimensions (W x H x D)	4.3" (109 mm) x 1.4" (35 mm) x .7" (16 mm)
Weight	1.1 oz. (32 grams)

All specifications subject to change without notice.



## **TROUBLESHOOTING**

### **USB COMMUNICATION ISSUES**

If neither of the ZB-Pro Mode LEDs illuminate while performing the specific *Integration Designer®* function follow these steps:

- Ensure that the ZB-Pro is seated properly into a powered USB port. If necessary, use 6" USB A-A extension cable that is provided.
- Verify that your PC has the RTI USB driver installed correctly. If you do not have the driver installed, use the `zbpro_usb.exe` installation file located in the following directory on your PC:  
"\\program files\\rti\\integration designer\\drivers"
- Reboot your PC.

### **RF COMMUNICATION ISSUES**

- Verify that ZM-24 Transceiver Modules being used as "repeaters" have been powered correctly.
- Move ZM-24 Transceiver Module closer to ZB-Pro - 10 feet (3m) or less.
- Try a different ZM-24 Transceiver Module if possible.
- Refer to ZM-24 operation guide for RF communication troubleshooting steps.
- Refer to the Dealer section of the RTI website for further troubleshooting steps: [www.rticorp.com/dealers](http://www.rticorp.com/dealers)

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