ZM-24

ZM-24
2.4GHz Transceiver Module

The ZM-24 transceiver module provides bi-directional communication between two-way enabled RTI remote controls and control processors utilizing Zigbee® wireless communication. Capable of being configured in two different modes, the ZM-24 can be hard-wired directly to a control processor or be used as a wireless repeater device to create an ultra-reliable, self-healing "mesh" network.

Utilizing the latest in wireless technology, the ZM-24 2.4GHz Transceiver Module is capable of more than just receiving signals - it can transmit signals as well. This creates a bi-directional communication link between Zigbee® enabled RTI control processors and handheld remote controls. Feedback, such as song meta-data or volume level from supported devices can now be viewed on the remote control.

The ZM-24 is easy to install, since only one module needs to be hard-wired to the control processor. This device becomes the "coordinator", while additional "repeater" modules can be added by simply powering them from any electrical outlet within communication range of other modules. The ZM-24 units will then create a self-healing "mesh" network which adapts to changes or problems with the communication path.

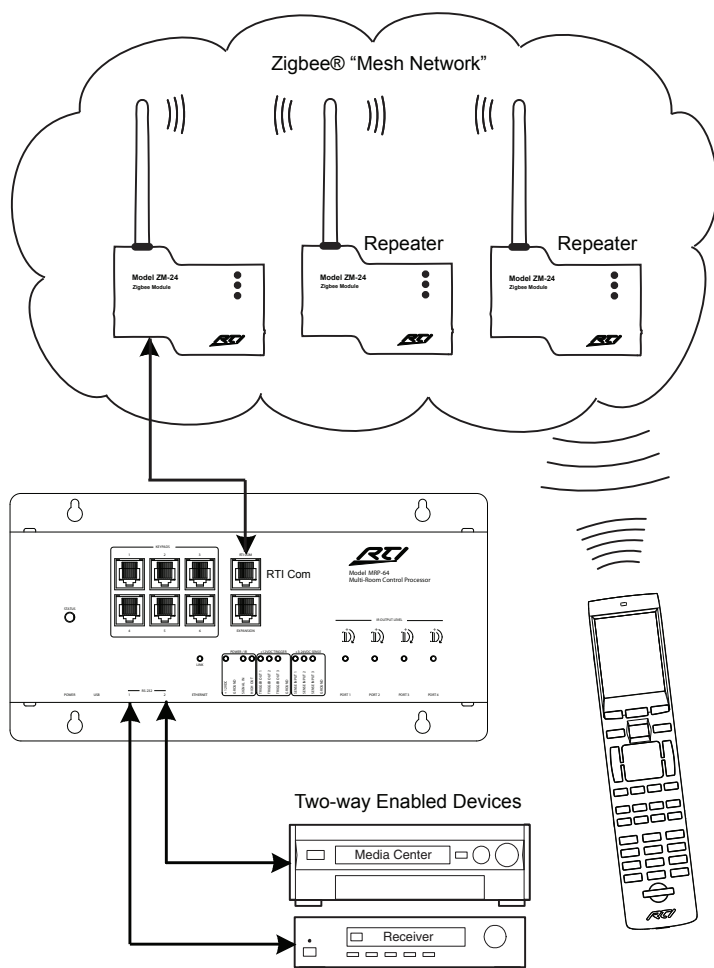**RTI Control System**

Key Features

- Enables bi-directional Zigbee® communication.
- Wireless Zigbee® communication range between ZM-24 modules up to 100 feet.
- Connects to a central processor from up to 1000 feet away using standard Cat5 cable.
- Can be connected directly to compatible RTI control processors or create a self-healing mesh network by adding modules configured in "repeater" mode.
- Utilizes IEEE802.15.4 wireless Zigbee® communication at 2.4Ghz.
- Durable plastic enclosure and adjustable antenna.
- Receives power from an RTI control processor or from the included power supply.
- Easy mounting with a detachable wall bracket.

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Specifications

Power..+9VDC to +16VDC, 60mA

RTI Com Port........................Two-way Zigbee® Communication Port, RJ45 Connection

.... Drives up to 1000 ft (300 m) of wire

Wireless Networking..................................... IEEE802.15.4 Zigbee© network compliant

RF Frequency Range ....2.4Ghz - 2.5Ghz

Operating Temperature... +32°F to +122°F (0°C to +50°C)

Operating Humidity...5% to 95% Non-condensing

Device Capability............................. Total number of devices is limited only by memory

Communications..OTA (Over-the-air) Programmable

Enclosure...High-impact molded ABS plastic, black

Mounting..Detachable bracket

Dimensions - Antenna Flat (WxHxD).......... 3.5" (89mm) x 4.0" (101mm) x 1.1" (28mm)

Dimensions - Antenna Extend. (WxHxD).. 3.5" (89mm) x 7.25" (184mm) x 1.1" (28mm)

Weight .... 4 oz (113g)

Warranty ....One Year (Parts & Labor)

All specifications subject to change without notice

Installation Diagram

Zigbee® "Mesh Network"

Repeater   Repeater

Model ZM-24
Zigbee Module

RTI Com

Model MRP-64
Multi-Room Control Processor

Two-way Enabled Devices

Media Center

Receiver

Remote Technologies Incorporated
5775 12th Avenue East, Suite 180, Shakopee, MN 55379
PH: (952) 253-3100 • Website: www.rticorp.com

RTI User Interfaces

RTiPanel	Mobile & PC Software Interface (App)
SURFiR	Companion Remote Control
T1-B+	Remote Control
T2i	Remote Control
T2x	Remote Control
T3x	Remote Control
RKM-1+	In-Wall Audio Distribution Keypad
RK1+	2-4-8 Button In-Wall Keypad
KX1	1.2" Audio Distribution Keypad
KX2	2.8" In-Wall Touchpanel Keypad
KX3	3.5" In-Wall Touchpanel Keypad
KX7	7" In-Wall Touchpanel
KX10	10" In-Wall Touchpanel
CX7	7" Countertop/Under-Cabinet Touchpanel
CX10	10" Countertop/Under-Cabinet Touchpanel

RTI Control Accessories

RP-4	RF Control Processor
XP-3	Advanced Control Processor
XP-6	Advanced Control Processor
XP-8v	Advanced Control Processor
RM433	433MHz RF Antenna
ZM24	2.4GHz Zigbee Transceiver
ZW-9	Z-Wave® Interface Module
CB-8	Touchpanel Connecting Block
CM-232	RS-232 Communication Module
CPB-1	Control Port Connecting Block
ECB-5	IR Connecting Block
ESC-2	Ethernet to Serial Converter
IPE-4	IR Port Expander
PCM-4	Port Control Module
RCM-4	Relay Control Module
vIRsa Mouse	IR Emitter

RTI Audio/Video Distribution

AD-4x	4x4 Audio Distribution System
AD-8x	8x8 Audio Distribution System
AD-16x	16x16 Audio Distribution Matrix Switch
CP-450	4 Channel Cool Power® Amplifier
CP-1650	16 Channel Cool Power® Amplifier
VHD-4	4x4 HDBT Video Matix Switch
VHD-8	8x8 HDBT Video Matix Switch
VHT-1	HDBT Video Transmitter
VHR-1	HDBT Video Receiver

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