



Wireless Contact / Relay Extender Installation Guide



Features

The Wireless Contact/Relay Extender is intended for use as a device you can control with your Control4® system. It is for the user who is looking for ways to control contact or relay devices in areas away from the main controller or who is simply looking for additional contacts and/or relays.

When installed, the Contact/Relay Extender is physically connected to up to four contacts and/or four relays and communicates to the Control4 system using either an Ethernet connection or a ZigBee (wireless) connection.

The Contact/Relay Extender is designed to sit on a standard rack shelf rather than be mounted with traditional rack ears. Its approximate dimensions are 6.5" wide (1/2 RU) x 1.5" tall (just under 1 RU) x 7.0" deep and it comes with a small plastic rack that enables you to store it in a vertical position.

-  **WARNING!** To reduce the risk of serious injury or death, turn all power OFF before installing this product.
-  **WARNING!** Do NOT use this device to control a non-dimmable load.
-  **WARNING!** This product generates heat. The device must be operated within specified operating temperature limits.
-  Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 1 Year Warranty."

Requirements

Models:	CXM-RCR1-B Wireless Contact / Relay Extender (802.15.4)
Power:	____ VAC 50/60 Hz ____ W
Communications:	ZigBee (802.15.4) 10/100 Ethernet

Specifications

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What's in the Box

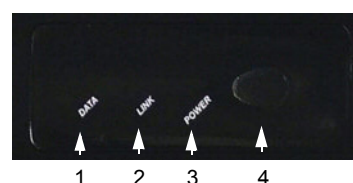
- Control4 Wireless Contact/Relay Extender
- AC power cord (2-prong)
- Vertical Mount Bracket
- *Wireless Contact / Relay Extender Installation Guide* (this guide)

About the Hardware

Front Panel

The front panel of the Contact/Relay Extender has three red LEDs indicating power and network connection status for Ethernet and ZigBee. A small button on the front panel enables you to identify the unit to the network during setup.

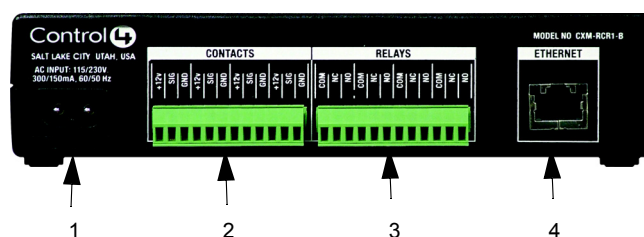
....and it acts as a "reset" when pressed for 10 seconds.
[Reset not currently supported...Should it be?]



1. Ethernet LED:
 - Flashing = Searching for an Ethernet link
 - On = Ethernet link established
2. ZigBee LED:
 - Flashing = Searching for a ZigBee link
 - On = ZigBee link established
3. Power LED:
 - On = Power present
4. ID Button:
 - When appropriate during system setup, press to uniquely identify this Contact/Relay Extender to the network. Or, when a reset is needed, press and hold for 10 seconds. **[Reset not currently supported...Should it be?]**

Back Panel

Become familiar with the back panel of the Wireless Contact/Relay Extender.



1. **Power plug port**—For supplied power cord only.
2. **Contacts 1-4**—Plugable Terminal Block connector for up to four dry contact closure, or logic input connections, such as door switches or motion sensors.
3. **Relays 1-4**—Plugable Terminal Block connector for up to four *normally closed* or *normally opened* switchable connections, such as blinds, fire-place, or projector screens.
4. **Ethernet**—RJ-45 for a 10/100 Ethernet connection.

Installation Instructions

1 Ensure that the location and intended use meet the following criteria:

- Install in accordance with all national and local electrical codes.
- The range and performance of the control system is highly dependent on the following:
 - Distance between devices
 - Layout of the home
 - Walls separating devices
 - Electrical equipment located near devices

2 Plan your connections. Use the following worksheet as needed.

Connection Description	Reserved for:
 Power—AC Input	Included AC power cord only
 Contacts—Mini Pluggable Terminal Block connectors for up to 4 contact connection sets: Power (+12v), Signal (SIG), and Ground (GND). Examples of use include: door switches and motion sensors.	1. 2. 3. 4.
 Relays—Mini Pluggable Terminal Block connectors for up to 4 relay connection sets: Common (COM), Normally Closed (NC), and Normally Opened (NO). Examples of use include: blinds, fireplaces, or projector screens.	1. 2. 3. 4.
 Ethernet—RJ-45 for a 10/100 Ethernet connection.	Ethernet connector only

3 Connect up to 4 contact inputs to the Contact/Relay Extender using the input ports found on the back of the device.

4 Connect up to 4 relay outputs to the Contact/Relay Extender using the output ports found on the back of the device.

5 Plug the CAT 5 wire from the wall into the Ethernet port (Ethernet 10/100 RJ45) on the back of the Contact/Relay Extender.

6 Plug the 2-prong AC power cord into the Contact/Relay Extender and into a standard 110 volt AC outlet. The Power LED on the front panel should be on.

7 Configure this Contact/Relay Extender using the Control4 Composer software. Trained installers typically use Control4 Composer software installed on a connected PC to install and configure the Contact/Relay Extender on the existing network. (Refer to the *Composer User Guide* for more information on adding an audio component.) You will be prompted to press the small button on the front panel to identify the unit to the network.

8 Test to see if it is working properly: Control any of the system contact and relay devices that you connected to the Contact/Relay Extender in the extended location.

You can use the many different interfaces available in a Control4 system (Remote Controls, Keypads, Touch Screens, or the On-Screen GUI) to set the control of devices attached to the Contact/Relay Extender.

Regulatory Compliance

This product complies with standards established by the following regulatory bodies:

- Federal Communications Commission (FCC)
- Industry Canada
- Underwriters Laboratory (UL)

FCC

FCC ID: _____: 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 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.



CAUTION! Changes or modifications not expressly approved by Control4 could void the user's authority to operate the equipment.

Industry Canada

This Class B digital apparatus complies with Canada ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

UL

UL Control Number: UL approval pending

Limited 1 Year Warranty

This device has a limited one (1) year warranty on parts from the date of purchase. Control4 will replace or repair any defective unit. Return unit to the place of purchase for replacement. For any damages incurred, the warranty will never exceed the purchase price of the device. This warranty does not cover installation, removal, or reinstallation cost. The warranty is not valid in cases where damage was incurred due to misuse, abuse, incorrect repair, or improper wiring or installation. It does not cover incidental or consequential damage. This warranty gives you specific legal rights, and you might also be entitled to other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages. In these cases, the above mentioned limitations might not apply to you. For complete warranty information, see www.control4.com. To automatically receive notification of upgrades, return the enclosed registration card or register online at www.control4.com.

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