Description

The INET-IOEX-RYIO provides a low-voltage relay and digital input control interface for remote devices such as garage door openers, sensors, and motorized screens. It includes two isolated relays and two digital input ports. It communicates with a Crestron® control system via the infiNET EX® wireless network, enabling control and monitoring of the remote equipment without having to run wires through walls and ceilings.

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) or scan the QR code to the right for additional information and the latest firmware updates.

Installation

The INET-IOEX-RYIO can be mounted onto any flat surface using three screws (not included). For best results, position the device to avoid interference from nearby RF sources, obstructions, and metal surfaces.
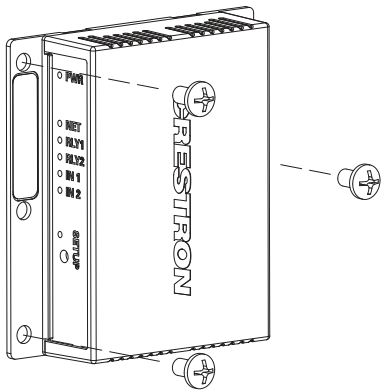
Hardware Hookup

Make the necessary connections as called out in the following illustration.

When making connections to the INET-IOEX-RYIO, use Crestron power supplies for Crestron equipment.

R1 - R2: To Controllable Devices	1/2/G: From Digital Devices	PWR: From DC Power Pack
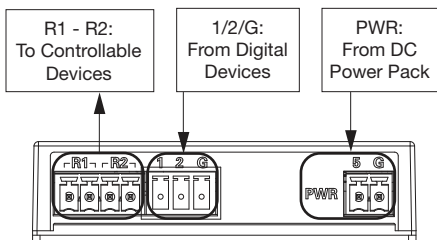
CAUTION: Observe the + and - markings on the power pack leads. Connect the + to the 5 terminal and the - to the G terminal on the INET-IOEX-RYIO.

NOTE: The INET-IOEX-RYIO can also be powered via USB. For example, refer to the TTL-232R-5V-WE at www.mouser.com.

Wireless Communications

The INET-IOEX-RYIO connects to the Crestron network via the infiNET EX communications protocol. Use the procedures outlined below to join or leave an infiNET EX network and to verify communications between the device and the control system.

Joining an infiNET EX Network

Before the INET-IOEX-RYIO can be used, it must first join an infiNET EX network by being acquired by an infiNET EX gateway.

NOTE: A device can be acquired by only one gateway.

1. Put the infiNET EX gateway into Acquire mode from the unit itself or from Crestron Toolbox™, as described in its manual at www.crestron.com/manuals.

   NOTE: In an environment where multiple gateways are installed, only one gateway should be in Acquire mode at any time.

2. Place the device into Acquire mode.

   a. Tap the **SETUP** button three times, and then press and hold it down (tap-tap-tap-press+hold) until the LED on the device blinks once (this can take up to 10 seconds).

   b. Release the button to start the acquire process. The LED blinks slowly to show that the device is actively scanning the infiNET EX network.

      • The top LED turns on for 5 seconds to show that the device has been successfully acquired by the infiNET EX network.

      • The LED blinks fast to indicate that the device was not successfully acquired by the infiNET EX network. Tap the **SETUP** button to acknowledge failure to acquire the infiNET EX network. Ensure the gateway is in Acquire mode and within range before attempting the acquire process again.

3. Once all devices have been acquired, take the gateway out of Acquire mode. Refer to the gateway's operations guide for details.

Leaving an infiNET EX Network

To leave an infiNET EX network, put the INET-IOEX-RYIO into Acquire mode, as described in "Joining an infiNET EX Network" above, when no gateway is in Acquire mode.

Verifying Communications Status

To check the communications status of the device, tap the **SETUP** button three times, and then press and hold it down (tap-tap-tap-press+hold) for up to 2 seconds. The LED blinks to indicate the communications status. Refer to the following table for details.

LED	COMMUNICATIONS STATUS
Turns on for 5 seconds	Device is communicating with the control system.
Blinks three times	Device is communicating with the gateway but the gateway is not communicating with the control system.
Blinks twice	Device was previously joined to the network but is not communicating with the gateway.
Blinks once	Device is not joined to the network.