

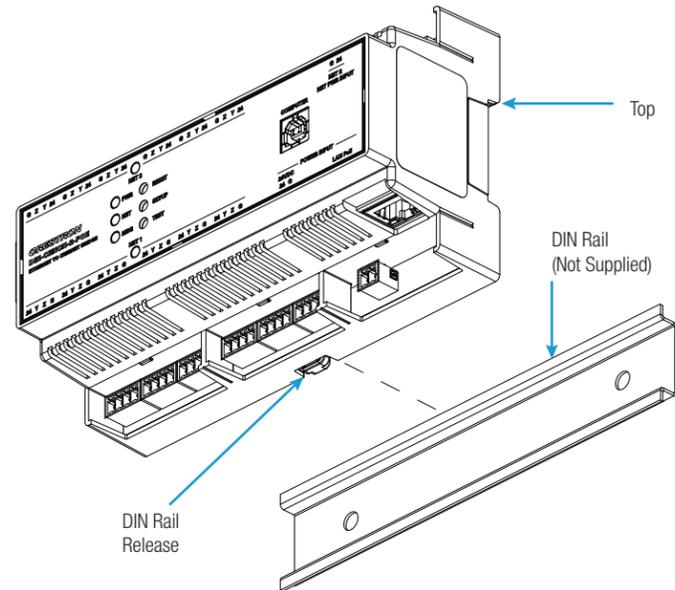
DIN-CENCN-2/DIN-CENCN-2-POE Ethernet to Cresnet® Bridge

DO Install the Device

- Place the top of the DIN-CENCN-2's rail mount over the top of the DIN rail.
- Tilt the bottom of the DIN-CENCN-2 toward the DIN rail until it snaps into place.

NOTE: When mounting DIN rail products, it may be necessary to use a flat-head screwdriver to pull the DIN rail release tab while snapping the device onto the DIN rail.

NOTE: Certain third-party DIN cabinets provide space for an informational label between each DIN rail row. Crestron's Engraver software (version 4.0 or later) can generate appropriate labels for all Crestron DIN rail products.



NOTE: To remove the DIN-CENCN-2 from the DIN rail, use a small, flat object (i.e., a flat-head screwdriver) to pull the DIN rail release and tilt the bottom of the DIN-CENCN-2 away from the DIN rail.

DO Make Connections

The DIN-CENCN-2 has two Cresnet® subnets (NET 1 and NET 2) that consist of six 24 Y Z G connections. Each subnet is able to handle 20 Cresnet devices. Each subnet can independently assign NET ID 3 to 22. Having two separate subnets prevents under-power, mis-wire, or slow performance problems. This bridge alleviates these problems by limiting the number of devices per subnet, providing diagnostic capability, and providing a high speed backbone to the processor to limit latency.

Make the necessary connections. Apply power after all connections have been made.

WARNING: Prior to connecting the device, turn off the power at the circuit breaker. Failure to do so may result in serious personal injury or damage to the device. Restore power after all connections have been made.

CAUTION: Connecting this device to the wrong type of load or short-circuiting the load can cause severe product damage. Each load should be tested to identify a short-circuit condition prior to wiring the load to the module.

NOTE: Use copper wire only.

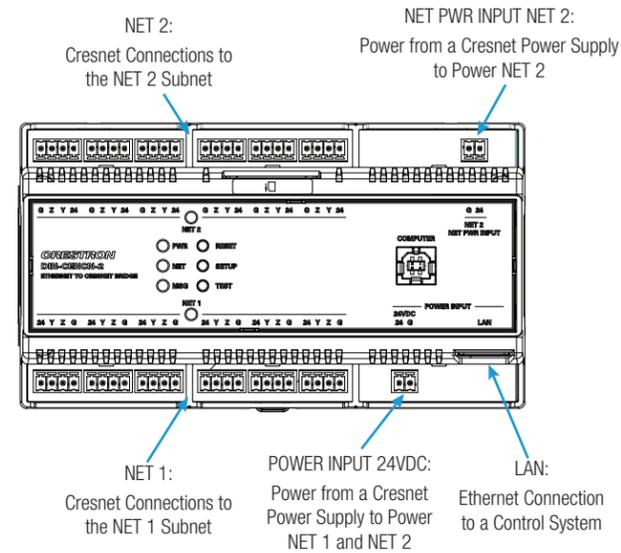
When making NET 1, NET 2, 24VDC POWER INPUT, and NET 2 NET PWR INPUT connections, strip the ends of the wires approximately 7/16 in (11 mm). Use care to avoid nicking the conductors. Tighten the connector to 5 in-lb (0.5 to 0.6 N-m). The wire gauge should be 14 to 26 AWG.

When making power connections to the DIN-CENCN-2, use a Crestron power supply.

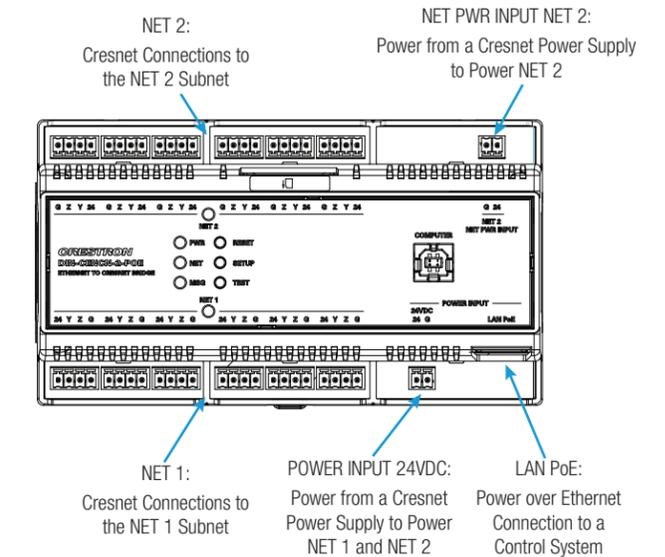
DO Check the Box

QUANTITY	PRODUCT	PART NUMBER
12	Connector, 4-Pin	2020555
2	Connector, 2-Pin	2003574

Hardware Hookup



Hardware Hookup with LAN PoE

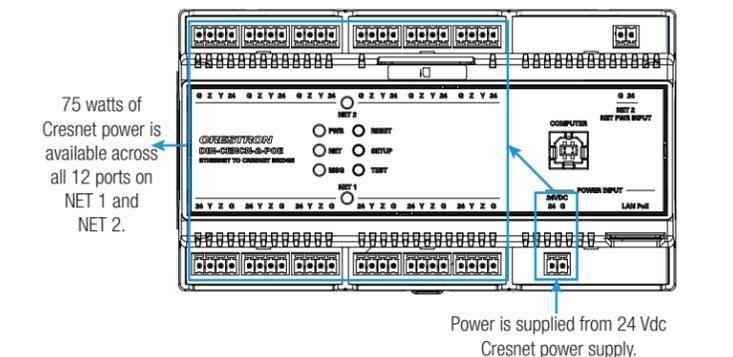
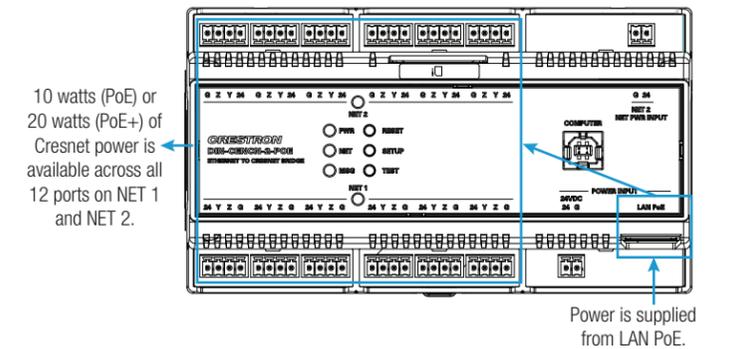


DO Connect Power

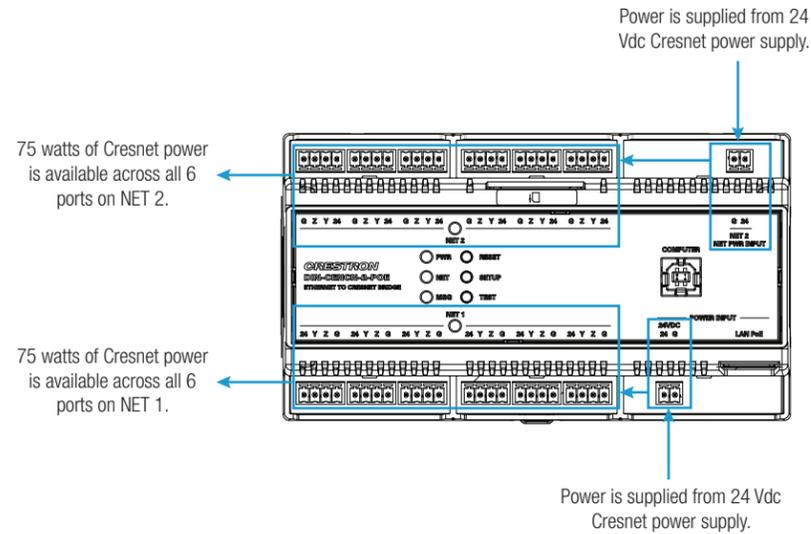
The DIN-CENCN-2 passes power from the connected power supply to the NET 1 and NET 2 segments. The DIN-CENCN-2 receives power through any connection to the POWER INPUT 24VDC, NET 2 NET POWER INPUT, or LAN PoE (if available); power usage of the DIN-CENCN-2 does not affect power output to NET 1 and NET 2.

If the power usage of the connected devices exceeds the specifications below, the DIN-CENCN-2 disconnects power.

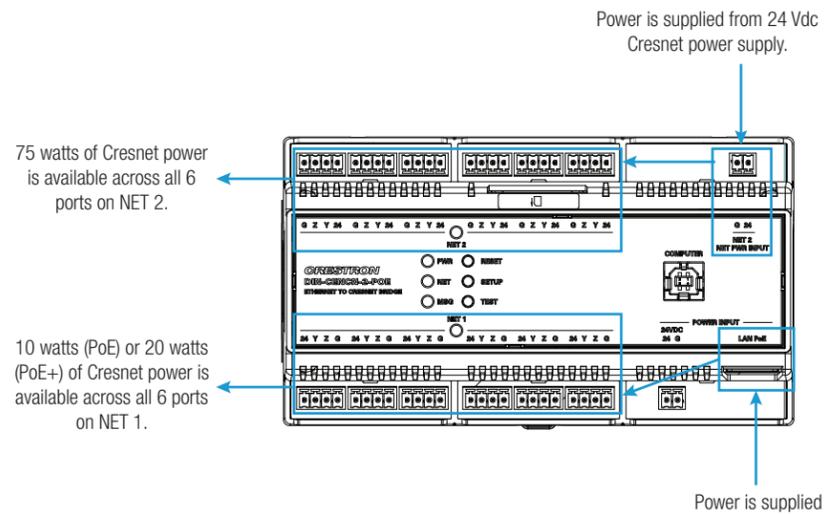
- When powered by PoE Class 0 only, no 24 Vdc Cresnet power supplies are connected, and there is 10 watts of Cresnet power available across all ports on NET 1 and NET 2. The total Cresnet load across all NET 1 and NET 2 ports combined cannot exceed 10 watts.
- When powered by PoE+ Class 4 only, no 24 Vdc Cresnet power supplies are connected, and there is a total of 20 watts of Cresnet power available across all ports on NET 1 and NET 2. The total Cresnet load across all NET 1 and NET 2 ports combined cannot exceed 20 watts.
- If a single 75 watt 24 Vdc Cresnet power supply is connected to the 24VDC POWER INPUT, then there is a total of 75 watts of Cresnet power available across all ports on NET 1 and NET 2. The total Cresnet load across all NET 1 and NET 2 ports combined cannot exceed 75 watts.



- If two separate 75 watt 24 Vdc Cresnet power supplies are connected, one to the 24VDC POWER INPUT and the other to the NET 2 NET PWR INPUT, then there is 75 watts of Cresnet power available across all ports on NET 1, and 75 watts of Cresnet power available across all ports on NET 2. The total Cresnet load across all ports on NET 1 cannot exceed 75 watts, and the total Cresnet load across all ports on NET 2 cannot exceed 75 watts.



- If a single 75 watt 24 Vdc Cresnet power supply is connected to the NET 2 NET PWR INPUT, with no power supply connected to the 24VDC POWER INPUT, then there is 75 Watts Cresnet power available across all ports on NET 2 only. If, in addition, a PoE or PoE+ power source is connected to the LAN PoE POWER INPUT port, then there is 10 watts (PoE) or 20 watts (PoE+) Cresnet power available across all ports on NET 1.



DO Perform Functions

TEST Button

Press the TEST button to perform a hardware test of the device. The device reports errors via blink patterns. The device displays error codes using the NET or MSG LED on the interface. The LED blinks a specific pattern to indicate an error.

For example, when a 3-3 LED blink pattern occurs, the LED blinks three times, pauses for 1 second, blinks three times, pauses for 5 seconds, and then repeats until the error is corrected. When a 2-1 LED blink pattern occurs, the LED blinks two times, pauses for 1 second, blinks once, pauses for 5 seconds, and then repeats this code until the error is corrected.

NET LED Feedback

LED PATTERN	ERROR STATE
Error code 1-1	Broken Y Wire
Error code 1-2	Y Short to 24V
Error code 1-3	Y Short to Ground
Error code 2-1	Broken Z Wire
Error code 2-2	Z Short to 24V
Error code 2-3	Z Short to Ground
Error code 3-1	Z Short to Y
Error code 3-2	Y and Z crossed

MSG LED Feedback

LED PATTERN	ERROR STATE
Error code 1-1	Com issue Ethernet
Error code 1-2	Com issue NET A
Error code 1-3	Com issue NET B
Error code 2-1	Com issue Ethernet and Cresnet
Error code 2-2	PoE low voltage
Error code 2-3	EXT 24V low voltage
Error code 3-1	Overload NET A
Error code 3-2	Overload NET B
Error code 3-3	Overload NET A and NET B

SETUP Button

Press the SETUP button to enter Autodiscovery mode via Ethernet.

RESET Button

Press the RESET button to perform a hardware reset.

DO Learn More

Visit the website for additional information and the latest firmware updates. To learn more about this product, use a QR reader application on your mobile device to scan the QR image.

Crestron Electronics
15 Volvo Drive, Rockleigh, NJ 07647
888.CRESTRON | www.crestron.com



CE As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.

Federal Communications Commission (FCC) Compliance Statement

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.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Industry Canada (IC) Compliance Statement

CAN ICES-3(B)/NMB-3(B)

Crestron product development software is licensed to Crestron dealers and Crestron Service Providers (CSPs) under a limited non-exclusive, non-transferable Software Development Tools License Agreement. Crestron product operating system software is licensed to Crestron dealers, CSPs, and end-users under a separate End-User License Agreement. Both of these Agreements can be found on the Crestron website at www.crestron.com/legal/software_license_agreement.

The specific patents that cover Crestron products are listed at www.patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Crestron, the Crestron logo, and Cresnet are either trademarks or registered trademarks of Crestron Electronics, Inc., in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

This document was written by the Technical Publications department at Crestron.

©2015 Crestron Electronics, Inc.

The product warranty can be found at www.crestron.com/warranty.