

CP3/CP3N 3-Series® Control System

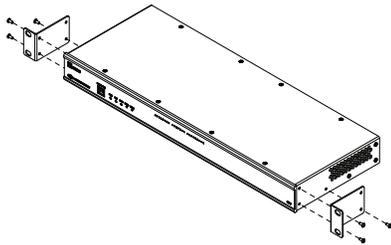
The CP3 and CP3N are generally identical. For simplicity within this guide, the term "CP3" is used except where noted.

DO Install the Device

The CP3 can be mounted into a rack or placed onto a flat surface.

Mounting into a Rack

The CP3 occupies 1U of rack space. Using a #1 or #2 Phillips screwdriver, attach the two included rack ears to the device. Then, mount the device into the rack using four mounting screws (not included).



Placing onto a Flat Surface

When placing the device onto a flat surface or stacking it with other equipment, attach the included feet near the corners on the underside of the device.

DO Connect the Device Hardware Hookup

Make the necessary connections as called out in the diagram to the right. Connect power last.

When making connections to the CP3, note the following:

- Use Crestron® power supplies for Crestron equipment.
- The included cable(s) cannot be extended.

NOTE: Ensure the unit is properly grounded by connecting the chassis ground lug to an earth ground (building steel).

NOTE: The CP3 can be powered by the 4-position terminal block connector labeled NET or with the (included) 24 Vdc power pack.

Connect the Control Subnet (CP3N Only)

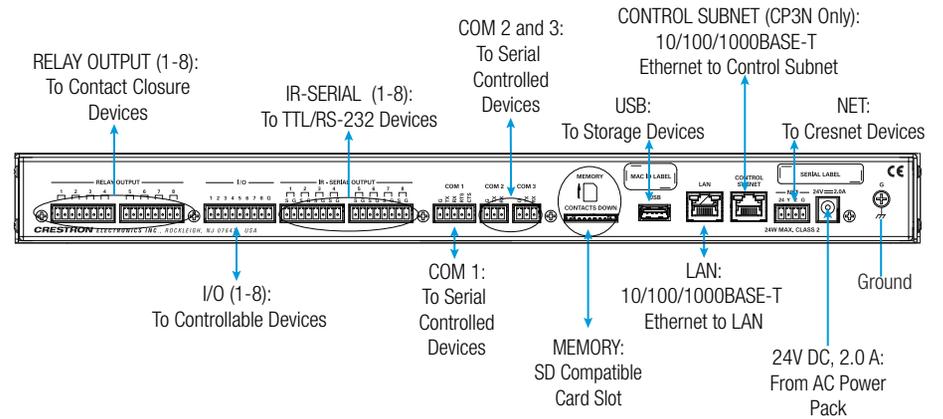
The CP3N has a dedicated Control Subnet that is used for communication between the control system and Crestron Ethernet devices. This subnet allows for dedicated communication between the control system and Crestron Ethernet devices without interferences from other network traffic on the LAN.

NOTE: Do not connect the CONTROL SUBNET port to the LAN. The CONTROL SUBNET port must be connected only to Crestron Ethernet devices.

For details on using the Control Subnet, refer to Doc. 7150 at www.crestron.com/manuals.

DO Check the Box

QTY	PRODUCT	COLOR	PART NUM.
2	Connector, 3-Pin		2003575
1	Connector, 4-Pin		2003576
1	Connector, 5-Pin		2003577
4	Connector, 8-Pin		2003580
1	Connector, 9-Pin		2003581
1	Power Pack, 24 Vdc, 2.5 A, 100-240 Vac		2045873
1	Cable, USB 2.0, A - B, 6' (1.83 m)		2014966
2	Bracket, Rack Ear, 1U		2032122
4	Foot, 0.5" x 0.5" x 0.23", Adhesive	Black	2002389
1	Power Cord, 5' 10" (1.78 m)		2042043



COM 1 Connections

PORT	RS-232	RS-422 ¹	RS-485
G	GND	GND	GND ²
TX	TX (from CP3/CP3N)	TX- (from CP3/CP3N)	TX-/RX-
RX	RX (to CP3/CP3N)	RX+ (to CP3/CP3N)	Not Used
RTS	RTS (from CP3/CP3N)	TX+ (from CP3/CP3N)	TX+/RX+
CTS	CTS (to CP3/CP3N)	RX- (to CP3/CP3N)	Not Used

1. RS-422 transmit and receive are balanced signals requiring two lines plus a ground in each direction. RXD+ and TXD+ should idle high (going low at start of data transmission). RXD- and TXD- should idle low (going high at start of data transmission). If necessary, RXD+/RXD- and TXD+/TXD- may be swapped to maintain correct signal levels.

2. A ground terminal connection is recommended but not required.



DO Configure the Control System

The CP3 can be configured using Crestron Toolbox™ software and the built-in, web-based setup tool.

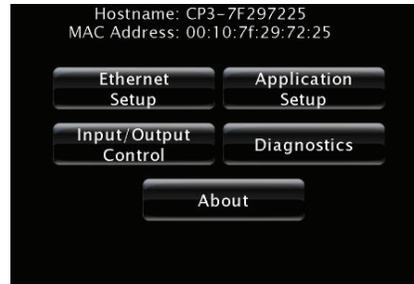
1. Use Crestron Toolbox to set the time zone. For details, refer to the Crestron Toolbox help file.
2. Use Internet Explorer® browser to navigate to <http://xxx.xx.xx.xxx/setup>, where xxx.xx.xx.xxx is the IP address of the control system. The control system's welcome screen is displayed.



NOTE: The web-based setup tool is accessible only from Internet Explorer.

NOTE: If a security warning is displayed, click **Install** to continue.

3. Click **Setup** to display the CP3 setup menu. The CP3 setup menu displays the IP address, hostname, and MAC address of the device. It also allows access to various setup and programming screens.



4. From the CP3 setup menu, click the following options to configure the control system:

- **Ethernet Setup** configures the CP3's Ethernet settings and displays DHCP, hostname, IP address, subnet mask, default router, domain, and MAC address settings. In the Ethernet setup menu, there are additional options:
 - Click **Advanced Settings** to specify DNS servers, web server settings, and SSL settings.
 - Click **MyCrestron Dynamic DNS** to configure the myCrestron.com Dynamic DNS service.

- Click **Ethernet Diagnostics** to test Ethernet communications.
- Click **Reboot** to reboot the CP3.
- **Application Setup** selects programs to be loaded on startup and controls which program(s) are running.
- **Input/Output Control** configures the COM ports, operates the relays, and monitors the Versiports.
- **Diagnostics** displays information about the connected devices, hardware configuration, and error logs.
- **About** displays firmware information.

Click  to return to the previous screen.

DO Learn More

Visit the product page on the Crestron website (www.crestron.com) for additional information. Use a QR reader application on your mobile device to scan the QR images.

Crestron Electronics

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

 These products are Listed to applicable UL Standards and requirements by Underwriters Laboratories Inc.

Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following 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)

Rack Mounting Safety Precautions

- **Elevated Operating Ambient Temperature:** If the unit is installed in a closed or multiunit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- **Reduced Airflow:** Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.
- **Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable Earthing:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

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