The Crestron® CP3 and CP3N are compact, rack-mountable 3-Series® automated control processors with numerous integrated control ports. Featuring the 3-Series control engine, the CP3 and CP3N unify the disparate technologies in residential, commercial, and government buildings so that they can communicate and work together intelligently. The CP3N also supports the Crestron Control Subnet, which is an isolated gigabit Ethernet network dedicated exclusively to Crestron devices.

**NOTE:** The CP3 and CP3N are functionally similar. For simplicity within this guide, the term "control system" is used to refer to both the CP3 and CP3N unless otherwise noted.

### Check the Box

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP3 or CP3N</td>
<td>1</td>
</tr>
<tr>
<td>Bracket, Rack Ear, 1U</td>
<td>1</td>
</tr>
<tr>
<td>Cables, USB 2.0, A - B, 6 ft</td>
<td>1</td>
</tr>
<tr>
<td>Connector, 3-Pin</td>
<td>2</td>
</tr>
<tr>
<td>Connector, 4-Pin</td>
<td>1</td>
</tr>
<tr>
<td>Connector, 5-Pin</td>
<td>2</td>
</tr>
<tr>
<td>Connector, 8-Pin</td>
<td>1</td>
</tr>
<tr>
<td>Connector, 9-Pin</td>
<td>1</td>
</tr>
<tr>
<td>Fast, 0.5 in. x 0.5 in. x 0.23 in., Rubber, Black</td>
<td>4</td>
</tr>
<tr>
<td>Power Cord, 5 ft 10 in. (1.78 m)</td>
<td>1</td>
</tr>
<tr>
<td>Power Pack, 24 VDC, 2.5 A, 100-240 VAC</td>
<td>1</td>
</tr>
</tbody>
</table>

### Install the Device

The control system may be mounted into a rack or placed onto a flat surface.

#### Mount into a Rack

The control system occupies 1U of rack space. Use a #1 Phillips screwdriver to remove the required screws from the control system assembly (shown in the illustration below), and then attach the two included rack ears with the removed screws. Mount the control system into the rack with four mounting screws (not included).

#### Place onto a Flat Surface

When the control system is placed onto a flat surface or stacked with other equipment, attach the four included feet near the corners on the underside of the control system.

### Connect the Device

Make all necessary connections to the control system as shown in the illustration below.

**I/O (1–8):** To controllable devices

**COM1:** To serial controlled devices

**COM2/COM3:** To serial controlled devices

**NET:** To any Crestron® network device

#### 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 without interference from other traffic on the network.

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

For more information on using the Control Subnet, refer to the 3-Series Control System Reference Guide (Doc. 7150) at www.crestron.com/manuals.

### COM 1 Connections

<table>
<thead>
<tr>
<th>Port</th>
<th>RS-232</th>
<th>RS-422†</th>
<th>RS-485</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>GND</td>
<td>GND</td>
<td>GND†</td>
</tr>
<tr>
<td>TX</td>
<td>TX (from CP3/CP3N)</td>
<td>TX+ (from CP3/CP3N)</td>
<td>TX+/RX+</td>
</tr>
<tr>
<td>RX</td>
<td>RX- (to CP3/CP3N)</td>
<td>RX+ (to CP3/CP3N)</td>
<td>Not used</td>
</tr>
<tr>
<td>RTS</td>
<td>RTS+ (from CP3/CP3N)</td>
<td>RTS+ (from CP3/CP3N)</td>
<td>TX+/RX+</td>
</tr>
<tr>
<td>CTS</td>
<td>CTS- (to CP3/CP3N)</td>
<td>CTS- (to CP3/CP3N)</td>
<td>Not used</td>
</tr>
</tbody>
</table>

1. RS-422 transmit and receive are balanced signals that require 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.

### 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 without interference from other traffic on the network.

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

For more information on using the Control Subnet, refer to the 3-Series Control System Reference Guide (Doc. 7150) at www.crestron.com/manuals.
Configure the Device

The control system may be configured using Crestron Toolbox™ software and the included web-based configuration utility. To configure the control system:

1. Use the Device Discovery tool in Crestron Toolbox to discover the control system and its IP address on the network.
2. Use Crestron Toolbox to set the time zone. For more information, refer to the Crestron Toolbox help file.
3. Use a web browser to navigate to http://xxx.xxx.xxx.xxx/setup, where xxx.xxx.xxx.xxx is the IP address of the control system. The 3-Series splash page is displayed.

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

4. Click Setup. The main Setup page is displayed.

The Setup page displays the IP address, hostname, and MAC address of the control system, as well as a key that is used to register the control system with the MyCrestron service.

The Setup page also provides access to various setup and programming pages:

- Click one of the setup selections to configure the applicable device settings.
- Click the back button on any page to return to the previous page.

Pair the Device with Apple® HomeKit® Technology

The control system can be paired with an Apple® HomeKit® system, which enables a TSR-310 handheld touch screen remote to control Apple TV™ devices via a control system program.

NOTES:
- The system, the Apple TV device(s), the TSR-310, and the iOS® device used for setup must all be connected to the same network.
- The 3-Series control system must be registered to a MyCrestron account prior to pairing it with Apple HomeKit. To register the device, visit http://portal.mycrestron.com, where Add Device from the Devices tab, and then follow the provided instructions.
- The 3-Series control system must be connected to the internet and must have DNS (Domain Name System) enabled.

To enable the Apple HomeKit functionality on the control system:

1. Open Crestron Toolbox software and establish a connection to the control system.
2. Enable SSL by using the SSL Management function or by issuing the ssl command in the Text Console tool. For more information, refer to the embedded Crestron Toolbox help files and the 3-Series Control System Reference Guide (Doc. 7150).
3. Navigate to the control system Setup page as described in “Configure the Device.”
4. Click Apple HomeKit. The Apple HomeKit page is displayed.

5. Click Enable to enable the HomeKit feature on the control system.
6. Click OK to reboot the control system after a reboot confirmation message is displayed.
7. Return to the main Setup page. A unique eight-digit code is now shown in the HK Setup Code field.
8. Record the unique eight-digit HomeKit code that is shown next to HK Setup Code.

Connect to Crestron XIO Cloud™ Service (Optional)

The Crestron XIO Cloud™ service allows supported Crestron devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported devices are connected to the service. Use of the service requires a registered Crestron XIO Cloud account.

NOTE: The device may be disconnected from the service by navigating to the Cloud Services tab in Crestron Toolbox software (Functions > Device Info > Cloud Services). For details, refer to the Crestron Toolbox help file.

To connect the device to the Crestron XIO cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or rear panel of the device. The MAC address and serial number are required to add the device to the Crestron XIO Cloud environment.
2. Do either of the following:
   - For existing accounts, navigate to https://portal.xio.cloud.
   - For new accounts, register for an account at www.crestron.com/xio-cloud-registration.
3. Claim the device to the service as described in the Crestron XIO Cloud User Guide (Doc. 8214) at www.crestron.com/manuals.

Additional Information

Scan or click the QR code for detailed product information.

Compliance and Legal

Original Instructions: The U.S. English version of this document is the original instructions. All other languages are translations of the original instructions.

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

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For information, please visit www.crestron.com/opensource.

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