

**Avocent® Local Rack Access 18.5" LED LCD Console**  
**With Integrated Keyboard, Touchpad and Dual USB 2.0 Ports**

*Installer/User Guide*

**For important safety information, visit:**  
**[www.emersonnetworkpower.com/ComplianceRegulatoryInfo](http://www.emersonnetworkpower.com/ComplianceRegulatoryInfo)**

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## Overview

The Avocent® Local Rack Access 18.5" LED LCD Console functions as an SVGA monitor and keyboard tray in one unit. It is available with an option of USB or PS/2 for the keyboard. It also has two USB 2.0 compliant pass-through ports, which provide faster data transmission between your console and connected USB 2.0 devices. For more information, see the [USB 2.0 Speed Chart](#) on page 12.

The console occupies 1RU (EIA term where 1RU = 1.75" of mounting height) of vertical space in a rack. This unit is installed with slide rails that will accommodate an Avocent® branded KVM appliance in the same 1RU.



# Installation

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**CAUTION:** The AC adaptor that is connected to the LCD monitor is not intended for use with other products. Do not disassemble the LCD monitor or remove the AC adapter.

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**NOTE:** The cabinet side rails may be boxed separately. If you are installing more than one unit at the same time, make sure to keep the outer slides with the same inner slides (mounted on the LCD tray) as matched pairs. Rails and units that shipped together must be paired together. Mismatched pairs may result in a damaged installation.

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## Avocent® Local Rack Access 18.5" LED LCD Console contents

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All products contain the following items:

- One Avocent® Local Rack Access 18.5" LED LCD Console with built-in LCD monitor, keyboard, dual USB 2.0 ports and cable management arm
- Two outer rails
- Miscellaneous hardware kit (user guide, safety sheet, cage nuts, clip nuts, screws and cable straps)

## Installation tools

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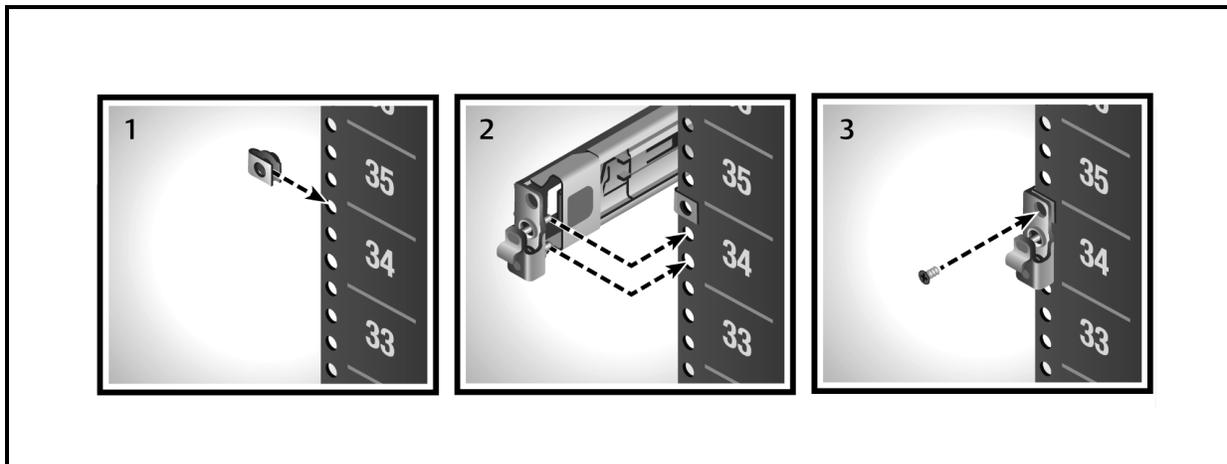
You will need the following tools (not provided) to install the LCD/keyboard tray:

- One No. 2 Phillips screwdriver
- One cage-nut-insertion tool or flat-blade screwdriver (for installing cage nuts in some racks)

## Installing in a standard EIA Rack

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### Installing the Rails in a Standard EIA Rack



#### To install the rails into a standard EIA rack:

1. Install a cage nut into the RU position on the front flange of the rack where you are going to install the rails.
2. Install the front of the rail so that the pins are in the bottom two positions in the RU space.
3. Insert a supplied screw into the cage nut to secure the front of the rail to the rack.

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**NOTE:** Do not tighten the screw until the unit is installed to allow for adjustment during installation.

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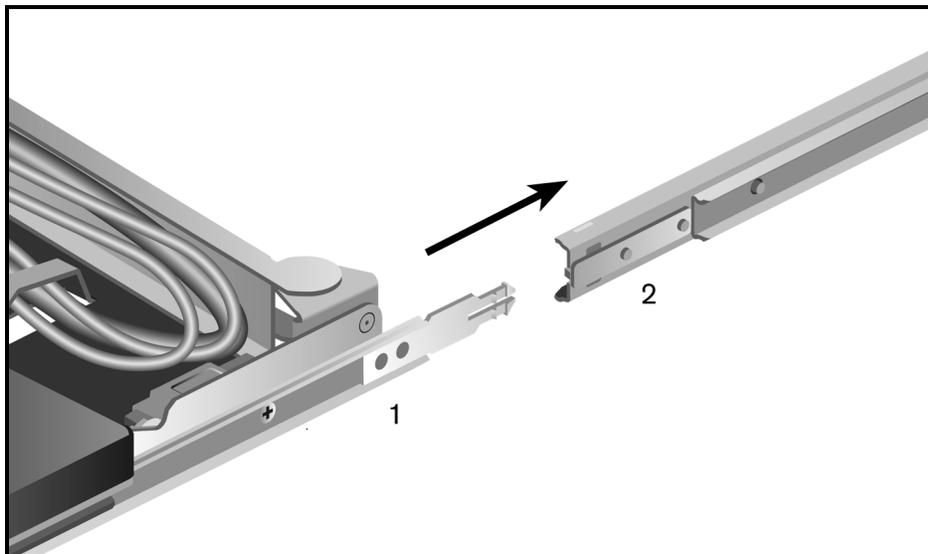
4. Insert the rear of the bracket into the rack, making sure it locks into place.
5. Repeat steps 1-4 for the rail on the other side of the rack.

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## Installing the LCD tray

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### Installing the LCD Tray



### To install the LCD tray:

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**NOTE:** The slide rails have front and rear detents for retention. Be careful not to damage them during installation.

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1. Ensure that the ball-bearing race is in the forward most position, touching the lead-in plastic guide.
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**WARNING:** Failure to engage the ball-bearing assembly with the plastic guide can cause damage to your rail.

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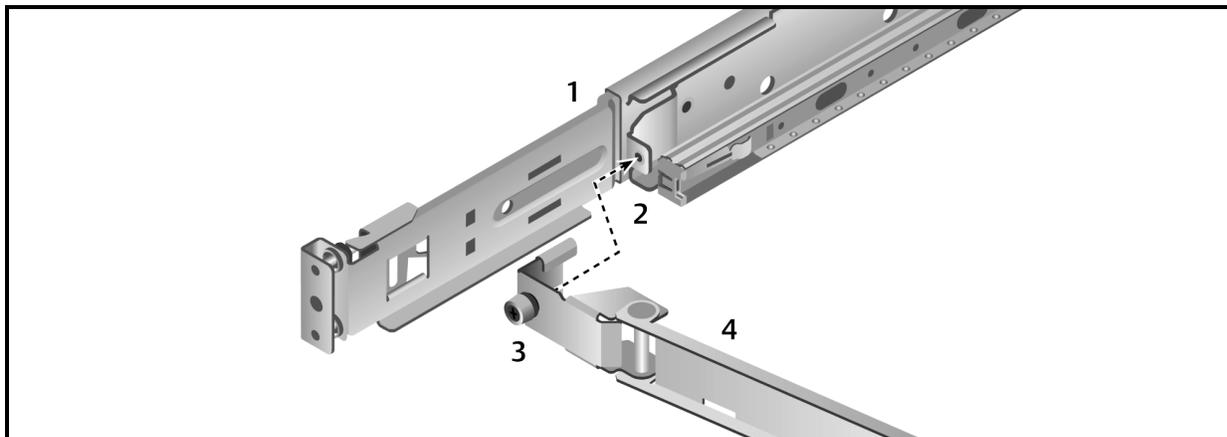
2. Extend the inner part of the outer rails and slide the ball-bearing assemblies forward to the front of the outer rails.
  3. Carefully slide the LCD tray into the ball-bearing assemblies in the rails. If necessary, loosen the Velcro® straps on the cable retractor to allow free and smooth movement of the cable retractor arm.
  4. Align the unit with the rails, keeping the unit parallel at all times. Push the LCD tray completely into the rack. Pull the LCD tray out to the extended detent and then push it back into the docked position to seat the unit properly in the rails. The slide rails should roll smoothly.
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**NOTE:** The set screws can be tightened after the unit is installed and centered.

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## Attaching the cable management arm

### Attaching the Cable Management Arm (CMA)



### Attaching the Cable Management Arm Description

Number	Description
1	Outer rail
2	CMA Attachment Bracket
3	Thumb screw
4	Cable management arm (CMA)

Attach the CMA to the outer slide-rail bracket by sliding the CMA bracket over the slide-rail mount and using the thumbscrew to secure the CMA.

**NOTE:** A Phillips head screw driver may be used to tighten the thumbscrew in tightly-spaced racks.

## Connecting the LCD tray

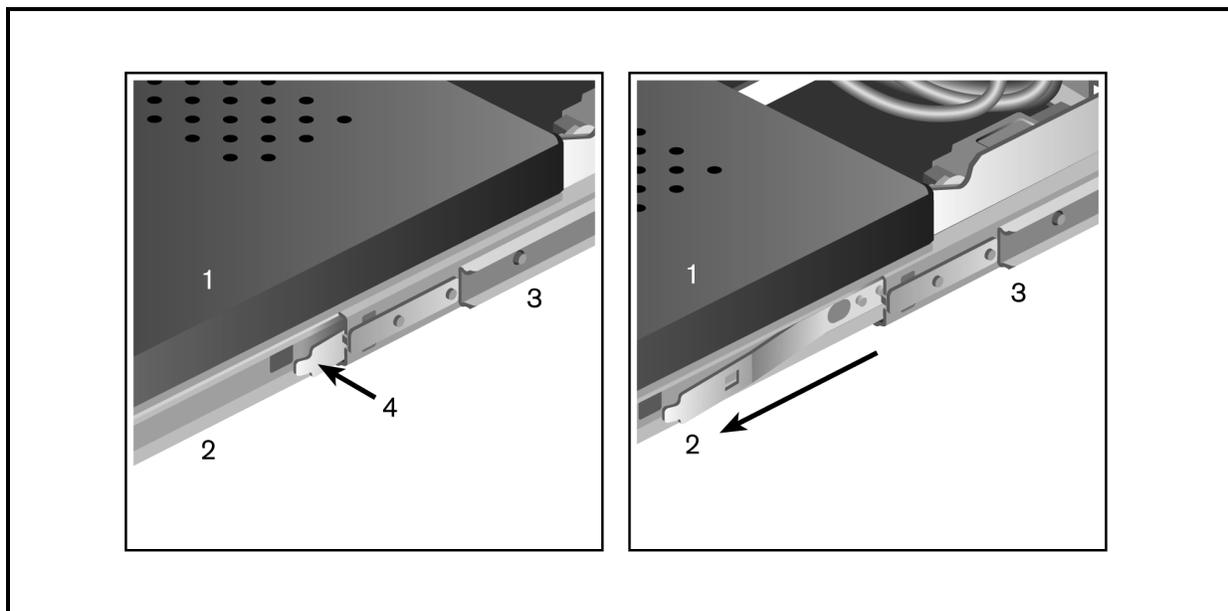
### To connect the LCD tray:

1. Connect the video, keyboard and mouse connectors to either a server or a console switch in the rack cabinet.
2. Connect the power cord to a properly grounded electrical outlet or power distribution unit (PDU).
3. (Optional) Bundle excess cables into a figure-eight loop and secure with a cables strap.

**NOTE:** Do not coil the cables. To minimize electrical interference from the video cable, arrange the cable in figure-eight loops.

## Removing the LCD tray from the rack

### Removing the LCD Tray from the Rack



### Removing the LCD Tray Descriptions

Number	Description
1	LCD tray
2	Inner rail
3	Outer rail
4	Release locking tab

### To remove the LCD tray:

**NOTE:** The slide rails have front and rear detents for retention. Be careful not to damage them during removal.

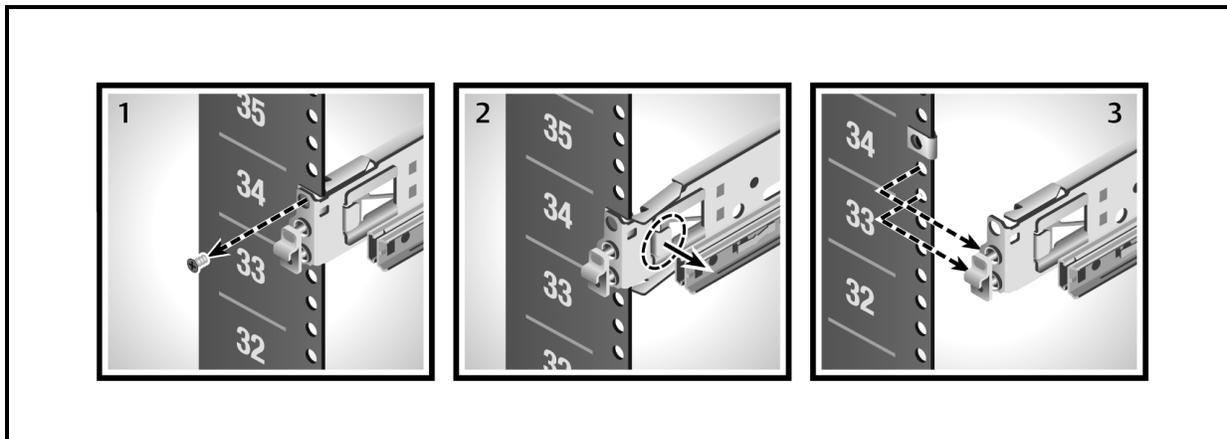
1. Disconnect the LCD tray from all power and signal connections.
2. Unscrew the thumbscrew to disengage the CMA from the slide rail and prepare the cables for removal from the rack.
3. Pull the LCD tray out from the rack until the detent engages.
4. When the detent engages, push the tab in along the inner rail and continue to slide the LCD tray out of the rack.

**NOTE:** When removing an LCD tray, make sure you remove and replace all slide rail bracketing in the rack. The slide rail assemblies should remain with the unit they shipped with.

## Removing the rails

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### Removing the rails



#### To remove the rails from the rack:

1. Remove the screw holding the front of the rail to the rack.
2. Pull the release tab to release the rail from the rack.
3. Pull the rail away from the rack.
4. Repeat steps 1-3 for the rail on the other side.
5. Remove the rear rack connection in the same manner as you did for the front connection.

# Using the Monitor

The following section contains basic information about using the monitor.

## Monitor user controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image that is displayed. The button images will match the instructions in the on-screen display (OSD) menu. All of the user control buttons on this unit are capacitive.

**NOTE:** There may be a slight delay in response time after pressing a button. Repeatedly pressing a button will result in multiple responses.

The user controls on the front of the LCD monitor function are detailed in the following table:

### LCD Monitor User Control Descriptions

Icon	Control	Description
	Auto	Press this button to automatically adjust the monitor settings.
	Left arrow	Press one of these buttons to select the function that is to be adjusted. Once you've selected the adjustment, use the arrow keys to increase or decrease the value of the selected adjustment.
	Right arrow	
	Menu	Press this button to display the OSD menu and to move the selector on the OSD menu.
	Exit	Press this button to exit from the OSD function or to go back to the previous menu.
	Power	Press this button to turn the monitor on and off. When it's illuminated blue, the monitor is in normal operation. When it's illuminated amber, the power is good but there is no video signal. When it blinks amber, the monitor is in standby. When it is black, the power is off.

The following table describes the menu control options.

### Menu Control Options

Setting	Description
<b>Brightness/Contrast</b>	
Brightness	Adjusts the brightness for the monitor
Contrast	Adjust the contrast for the monitor
<b>Display Settings</b>	
Viewing mode	1:1 gives the actual pixel representation on the screen. Use this only if the resolution is less than 1366 x 768
	Aspect fills the screen to the largest amount of space without altering the aspect ratio
	Fill fills the screen completely
Horizontal Position	Click the left and right arrows to adjust the image left and right
Vertical Position	Click the left and right arrows to adjust the image up and down
Sharpness	Adjust the sharpness of the image
Pixel Clock	Adjust how coarse the image is
Phase	Adjust how fine the image is
Reset Display Settings	Resets the settings to their factory default
<b>Color Settings</b>	
Standard	The monitor uses the standard color settings
Warm	The monitor uses the warm color settings
Cool	The monitor uses the cool color settings
Reset Color Settings	Resets the color setting to their factory default
Auto Adjust	Automatically sets the monitor settings
<b>Other Settings</b>	
Language	Sets the display for English, German, Spanish, French, Japanese, Simplified Chinese or Korean
Menu Timer	Sets the menu timer
DDC/CI	Enables Display Data Channel/Command Interface to permit software on your computer to adjust the settings for the monitor
LCD Conditioning	Enables LCD Conditioning to help eliminate any image retention
Reset Other Settings	Resets to the other settings to the factory default
Factory Reset/Version Information	Resets the monitor to its factory default

# Appendices

## Appendix A: Technical Specifications

### Technical Specifications

Category	Value
<b>LCD Panel</b>	
Size	18.5-inch diagonal
Display area (horizontal x vertical)	409.8 x 230.4 mm
Type	TFT active matrix
Pixel pitch (horizontal x vertical)	300 x 300 mm
<b>Characteristics</b>	
Brightness	250 cd /m <sup>2</sup> (Typ.)
Contrast ratio	1000:1 (Typ.)
Display color	16.7 million colors
Viewing angle	Horizontal - 170° Vertical - 160°
Aspect ratio	16:9 (native)
Scaling	1:1, Aspect and Fill
<b>Display Resolution</b>	
Optimum Mode	1366 x 768 at 60 Hz
Maximum Mode	1600 x 1200 at 60 Hz
Connector	VGA
Power Supply	AC 100 - 240 V, 60 Hz - 50 Hz to DC 12 v/3.3 A
<b>Power Consumption</b>	
Standard usage	17 watts
Maximum usage	22 watts
Power supply maximum	40 watts
Power saving	Less than 1 watt
<b>Environmental Conditions</b>	
Operating temperature	0°C to 50°C
Operating humidity	10% to 80%
Operating altitude	Maximum 3000 meters
Storage temperature	-20°C to +60°C
Storage humidity	5% to 95%
<b>Keyboard</b>	
Type	103 key keyboard with touchpad, USB or PS/2, plug and play

## Appendix B: USB 2.0 Speed Chart

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### USB Maximum Speed Chart

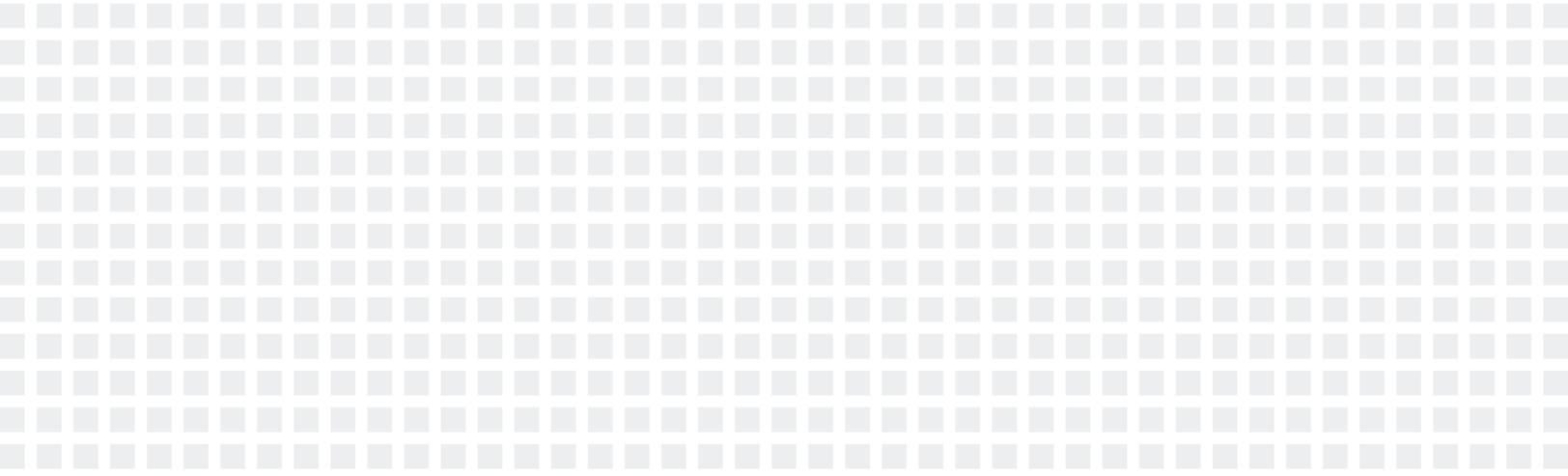
Device/Target	USB 1.1 Target	USB 2.0 Target	USB 3.0 Target
USB 1.1 device	12 megabits per second	12 megabits per second	12 megabits per second
USB 2.0 device	12 megabits per second	480 megabits per second	480 megabits per second
USB 3.0 device	12 megabits per second	480 megabits per second	480 megabits per second

## **Technical Support Site**

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures. For additional assistance, visit [www.avocent.com/support](http://www.avocent.com/support).

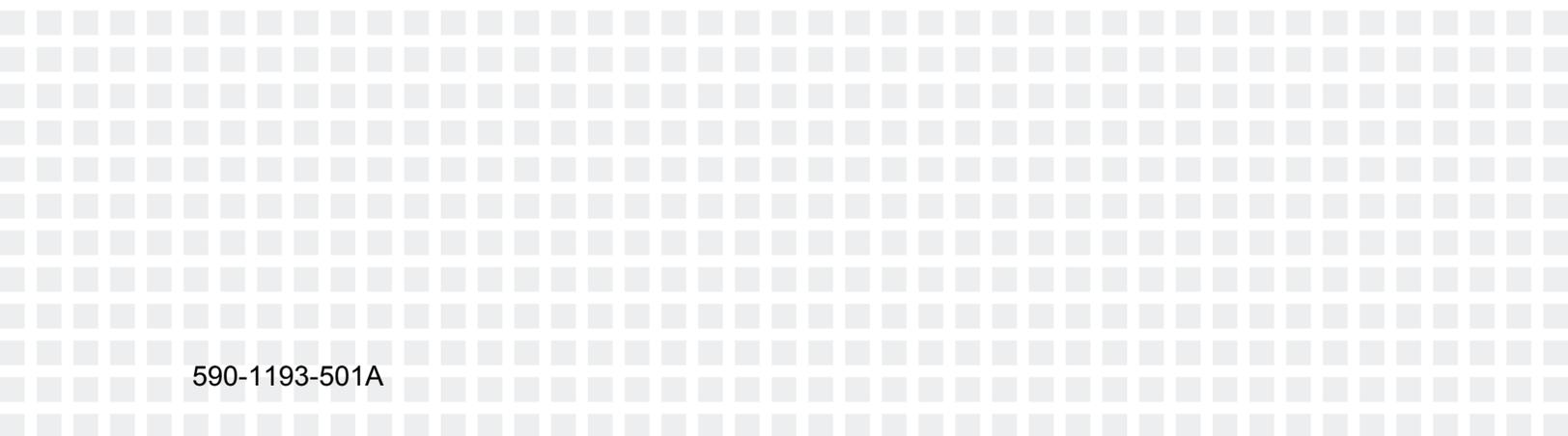
## **Avocent Community Support Site**

To search product knowledge content, visit [community.emerson.com/networkpower/support/avocent](http://community.emerson.com/networkpower/support/avocent).



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