

Display Sections

Structure Preparation

Verify the structure per the **RTX-2101/2801 Series Vertical Mounting Structure Placement & Verification Quick Guide (DD3884678)**.

First Display Section

- 1. Remove the display sections from the crates per the **RTX-2101/2801 Series Section Crating Quick Guide (DD3926184)**.
- 2. Remove the beverage shroud and install the M12 lift eyes supplied with the display hardware into the designated locations on the cabinet. Refer to **Figure 1** and the **RTX-2101/2801 Series Section Basics Quick Guide (DD3886326)**.

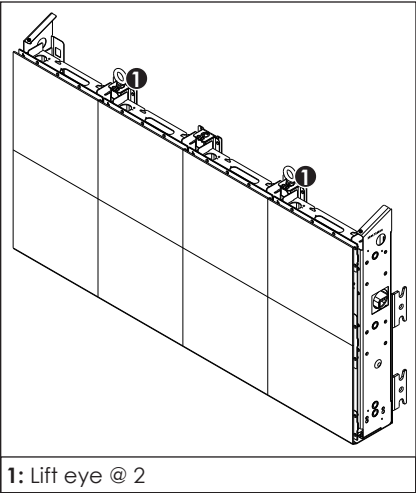


Figure 1: Install Lift Eyes

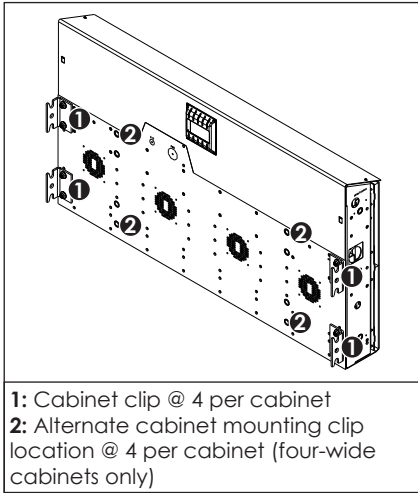


Figure 2: Attach Mounting Clips

- 3. Ensure the display section has cabinet clips installed in the correct locations and orientation. Only four-wide display sections have alternate cabinet clip mounting locations. Clips may also be rotated for wall channel placement. Refer to the contract-specific Shop Drawing for the required locations and orientation. Refer to **Figure 2**.
- 4. Lift the first display section into place per the **RTX-2101/2801 Series Section Lifting Quick Guide (DD3884528)**. It is recommended to place the second cabinet from the left first. Set the cabinet location per the contract-specific Shop Drawing and insert a temporary 1/4" self-drilling screw to prevent the cabinet section from moving when placing the adjacent section. Refer to **Step 10** for further details. This allows the cabinet to be centered on the wall clips. Refer to **Figure 3**.

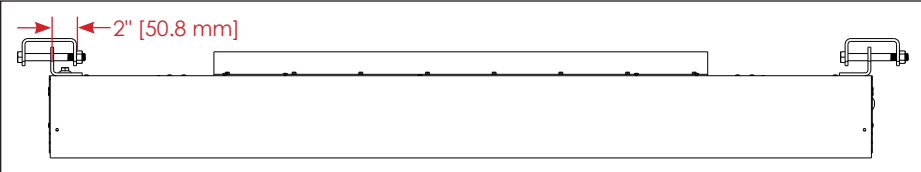


Figure 3: Center Cabinet on Wall Channel (Top View)

- 5. Center the cabinet on the wall channel with the cabinet clips hooked on the wall channel pins. It is recommended to install a temporary pin while lifting the adjacent sections. Refer to **Figure 4**.
- 6. Lift the adjacent section into position on the wall channel pins. Remove the left module column to access the interconnect hardware. Refer to **Figure 5**.

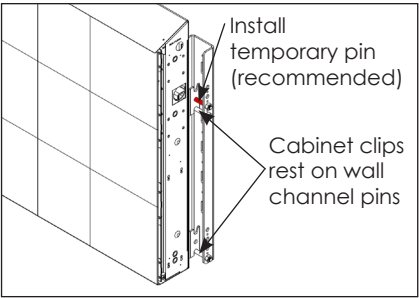


Figure 4: Hook Cabinet on Wall Channel Pins

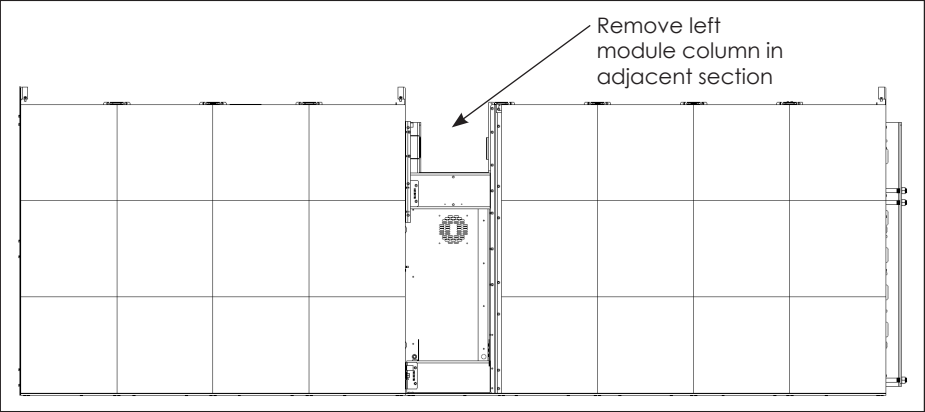


Figure 5: Remove Column to Access Interconnect Hardware

- 7. Install the supplied M12 interconnect hardware into the adjacent cabinet. Refer to **Figure 6**.

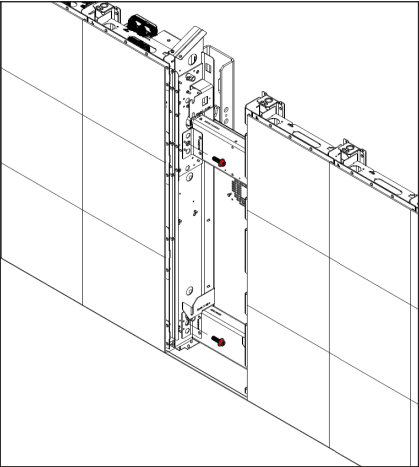


Figure 6: Install Interconnect Hardware

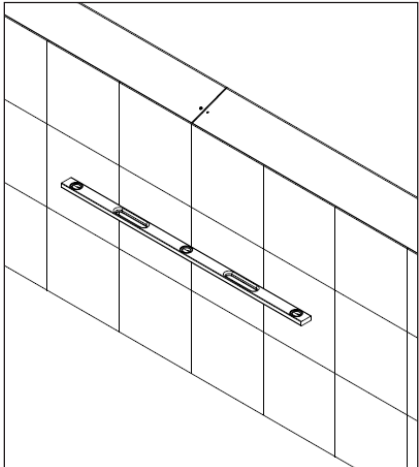


Figure 7: Ensure Flush Display Faces

- 8. Place a 4' level at both ends and the middle of the display seam (when possible) to ensure the display faces are flush, plumb, and flat to adjacent sections. Refer to **Figure 7**.

- 9. Install the third wall channel pin into the wall channel to prevent the cabinets from lifting off of the wall channel. Refer to **Figure 8** and the Shop Drawing for the correct hole location.

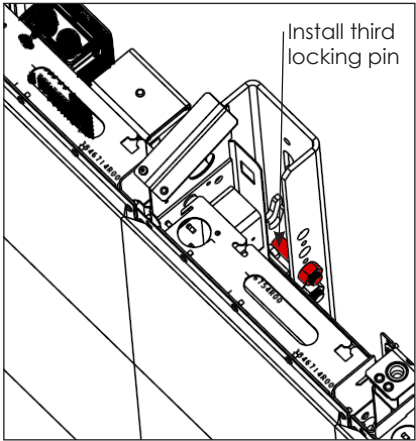


Figure 8: Install Third Locking Pin

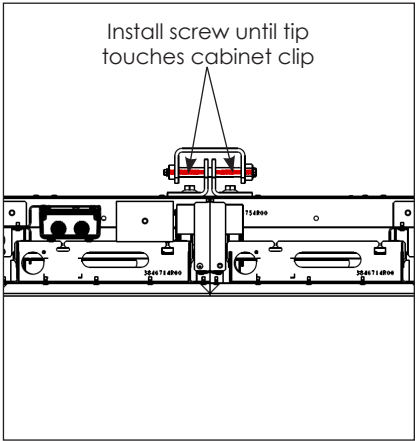


Figure 9: Install Self-Drilling Screws

- 10. Install the supplied 1/4" self-drilling screws to limit side-to-side movement. Refer to **Figure 9**. Drive the screws into the wall channel from each side until the screw tip touches the cabinet clips. Refer to the Shop Drawing for installation locations.

Border Installation

Attach the display borders per the **RTX-2101/2801 Series Border Installation Quick Guide (DD3882879)** after the display sections are secured to the structure.

Electrical

Power Interconnection

Junction boxes ship separately from the display and are supplied for landing power. Refer to the contract-specific System Riser Diagram for junction box locations within the display. Field power must be terminated in each junction box. The connections from the breaker panel to each junction box must be performed by a licensed electrician. Refer to **Figure 10**.

The junction box can power multiple sections on a three-phase 20 A circuit. Power is daisy-chained internally with factory-supplied harnessing. Refer to **DWG-3859881** (domestic) or **DWG-3859882** (international) for junction box assembly field installation locations and field power connection details. Refer to the System Riser Diagram for field power locations within the display.

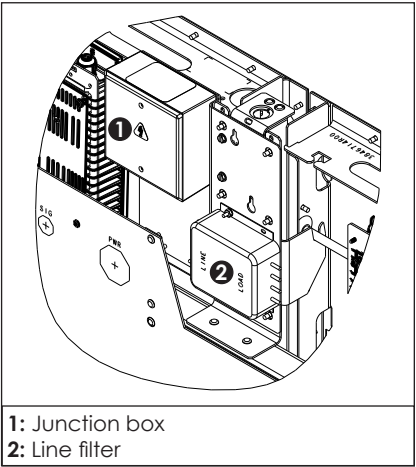


Figure 10: Line Filter & Junction Box

Signal Interconnection

- 1. Use the supplied hardware to place the ProLink Router(s) (PLRs) at the locations specified on **DWG-3859883** and the contract-specific Signal Interconnect Drawing and System Riser Diagram. Refer to **Figure 11**.

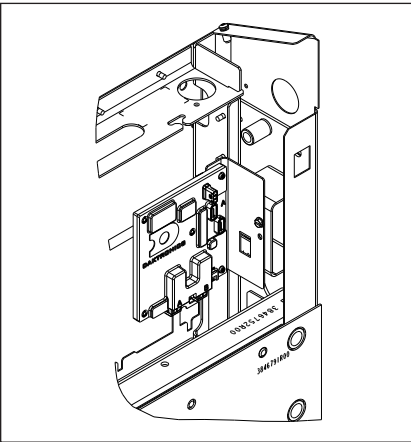


Figure 11: Mount PLR in Display

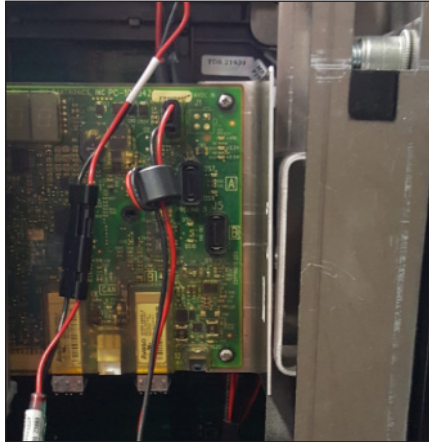


Figure 12: Connect PLR Power to Module Column Accessory Power

- 2. Route the field fiber cable (from control location) through the signal entrance, then terminate.
- 3. Use the supplied power cable (Daktronics part number W-2152) and Y cable (W-2154) to connect DC power from the module column accessory power. Refer to **Figure 12**.

- 4. Connect the field-terminated fiber cable to Port A on the first PLR in the system (typically the top-right corner of the first cabinet when viewed from the rear). Refer to **Figure 13**.



Figure 13: Field-Terminated Fiber Cable

- 5. Route the supplied fiber cables from Fiber Port B on the first PLR to Fiber Port A on the next PLR. Depending on the number of PLRs, this process is continued until Fiber Port A on the final PLR in the chain is connected. Refer to the contract-specific Signal Interconnect Drawing.

- 6. Route the supplied SATA cable from SATA Port A on the PLR to SATA Port A on the first module. Refer to **Figure 14**. SATA connection between cabinets may be required depending on the overall display size. Use the supplied SATA cables to connect the cabinets. Cabinet-to-cabinet SATA connections are made via cables secured to the top of each module column. Refer to the contract-specific Signal Interconnect Drawing for data routing information.



Figure 14: SATA Cable

Corner/Gap Consideration

- 1. Cut a notch in both ends of a flexible tube (Daktronics part number EC-1252). Ensure enough of a notch is cut in each end to avoid the hat channel in each cabinet and for the ribs on the tube to engage the cabinet pass-through holes.
- 2. Use the tube to cover any exposed cabling between corners or gaps. Refer to the contract-specific Shop Drawing for corner or gap locations, **Figure 15**, and **Figure 16**.

Note: Ensure at least 2" of the tube extends into each cabinet and the notch on the tube faces down.

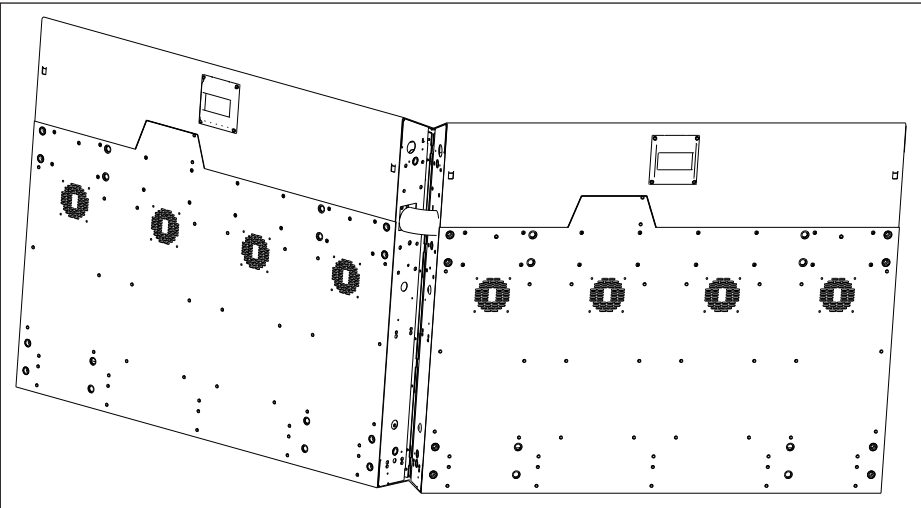


Figure 15: Flexible Tube for Corner

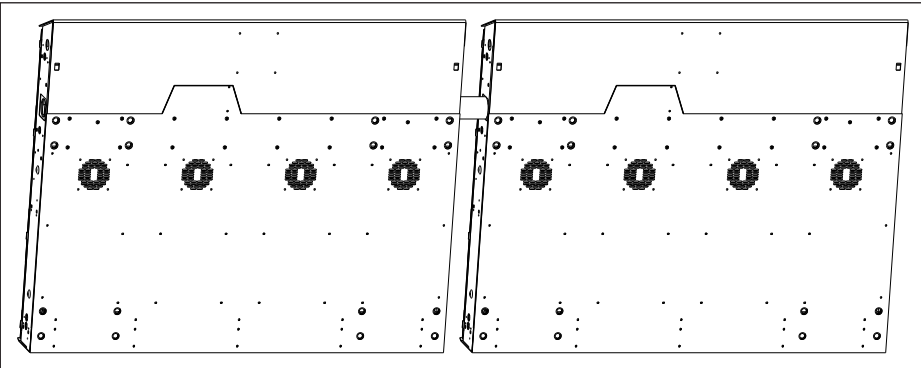


Figure 16: Flexible Tube for Gap

Service & Maintenance

Module

Front Access

- 1. Disconnect power to the display.
- 2. Turn the top latch release a 1/4 turn counterclockwise with a 1/8" Allen wrench.
- 3. Pull the module from the display just far enough to reach around to the back of the unit. Attach one end of a safety lanyard to the rings on either the top or bottom of the module and the other end to a secure location within the display to prevent the module from falling if dropped. Refer to **Figure 17** and **Figure 18**.

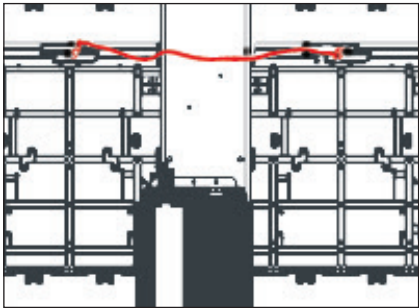


Figure 17: Safety Lanyard

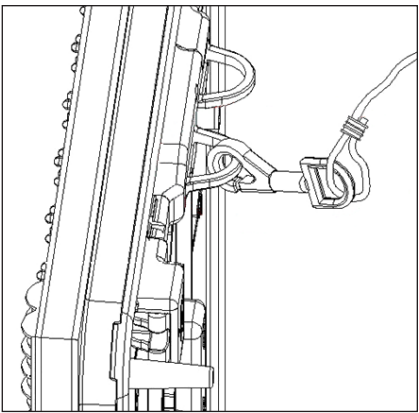


Figure 18: Safety Lanyard

- 4. Disconnect the power and signal cables from the rear of the module.

Reverse these steps to install a module in a front-access display.

Top Access

- 1. Disconnect power to the display.
- 2. Remove the beverage shroud to access the display.
- 3. Disconnect the power and signal cables for the column needing to be removed.
- 4. Attach one end of a safety lanyard to the labeled attachment point on top of the column and the opposite end of the lanyard to the labeled attachment point on the adjacent column to prevent the column from falling if dropped.
- 5. Maintain a firm grip on the column and pull up and away from the display to disengage the column from the attachment points. Once disengaged, the column can be moved to an area for servicing.

Reverse these steps to install a module in a top-access display.

Component Locations

Refer to the **RTX-2101/2801 Series Section Basics Quick Guide (DD3886326)** for component locations.