

User Manual



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Issue	Date	Description
01	11/20/2023	Original Release
02	03/05/2024	Updated descriptions through out

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About This Manual

This publication describes Priority Electronics Ltd's Distribution Hub. The Distribution Hub will accommodate up to 216 fibers using up to 9 splice trays with each tray accommodating 24 fibers.

Admonishments

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment. An admonishment identifies a potential hazard and then explains what may happen if the hazard is not avoided. These warnings are flagged by use of the alert triangle (See Below) and are listed in order of severity of injury or damage and likelihood of occurrence.



Danger: Danger is used to indicate the presence of a hazard that will or can cause severe personal injury, death or substantial property damage if the hazard is not avoided.



Warning: Warning is used to indicate the presence of a hazard that can cause severe personal injury, death or substantial property damage if the hazard is not avoided.



Caution: Caution is used to indicate the presence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided.

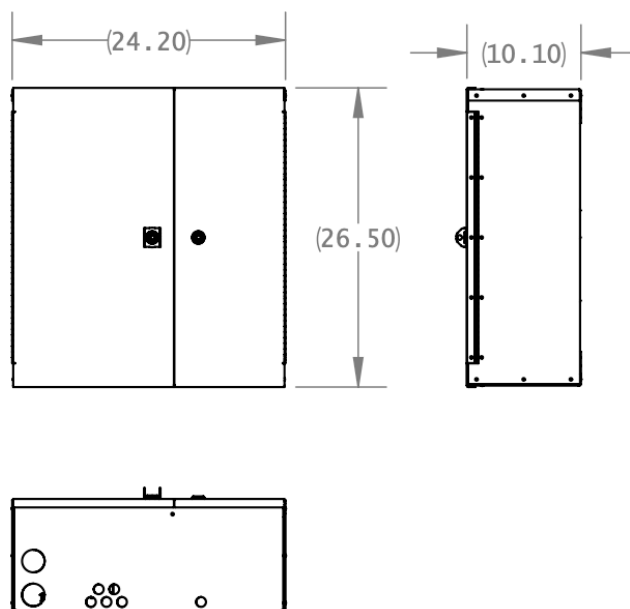
General Safety Precautions



Danger: Do not look into the ends of any optical fiber. Exposure to laser radiation may result. Do not assume the laser power is turned off or that the fiber is disconnected at the other end. Priority Electronics Ltd recommends the use of video inspection microscopes for inspecting connector end faces in the field.



Danger: Do not stand under the cabinet as it is being lifted into position for mounting. Serious personal injury and/or significant damage to the cabinet may result if dropped.



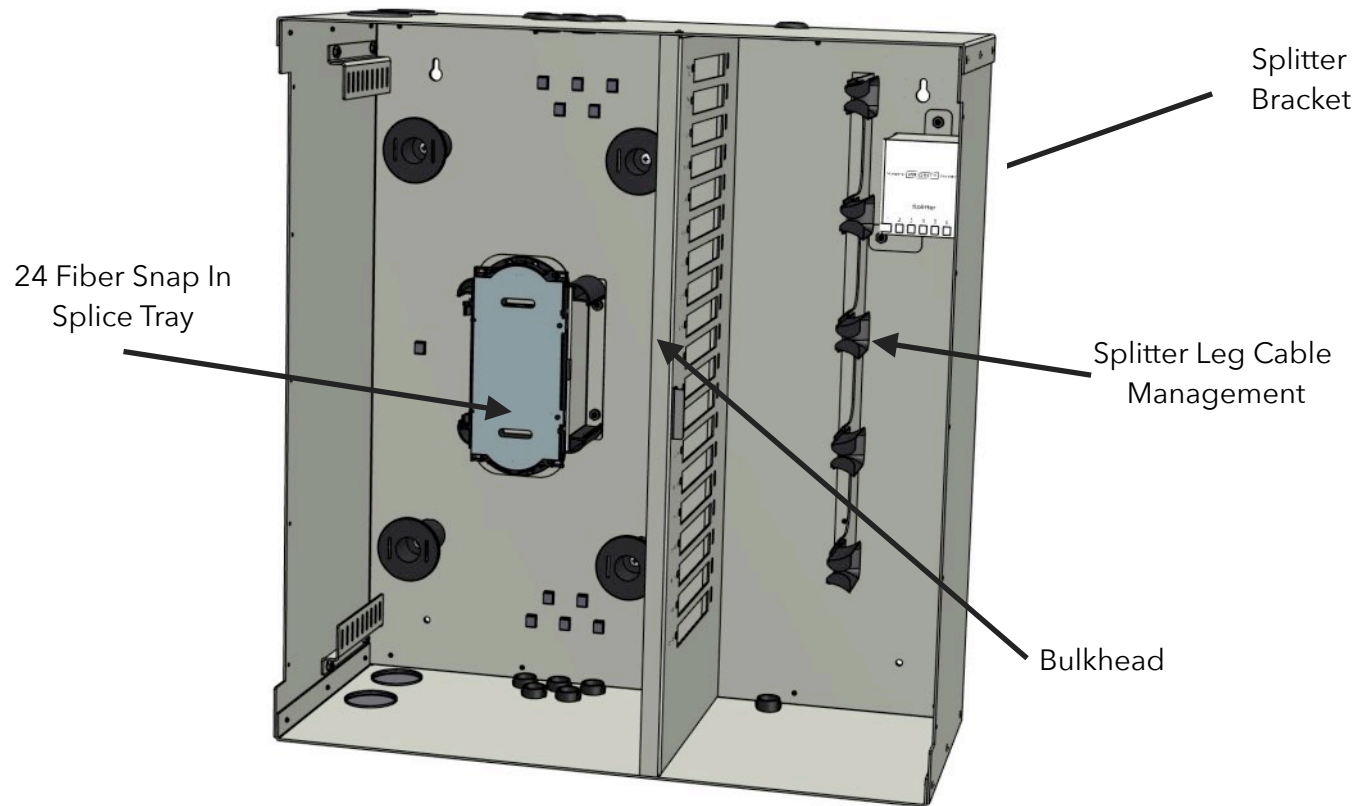
1. Overview

1.1. Cabinet Benefits

- Up to 216 SC Subscriber Ports
- Up to 18x SC APC Adapter Packs, optional pigtails
- Pre-stubbed versions available
- 12 SC APC Feeder Ports
- Up to 9 snap in 24 fiber splice trays hinged for access
- Up to 7x HD 1x32 Splitters
- Accommodates all Reflex accessories
- Pad Lockable

1.2. Specifications

Mechanical	
Dimensions	24.2" W x 26.5" H x 10.1" D (614.68mm x 673.1mm x 256.54mm)
Material	Aluminum
Finish	Grey powder coat



Doors are not removable, not shown here for clarity only.

This manual will explain how to wall mount the 216 Port Reflex Modular MDU and how to route and secure the fiber optic cables.

2. Inspection

Please read these instructions carefully before beginning installation.

Inspect equipment after unpacking.

Immediately report any shipping damage, defects, or missing parts to Priority at 1-800-478-0447, keep all documentation that came with your shipment.

Priority is not liable for shipping damage. If the product is damaged, notify the carrier and call a Priority CSR at 1-800-478-0447.

3. Installation Procedures



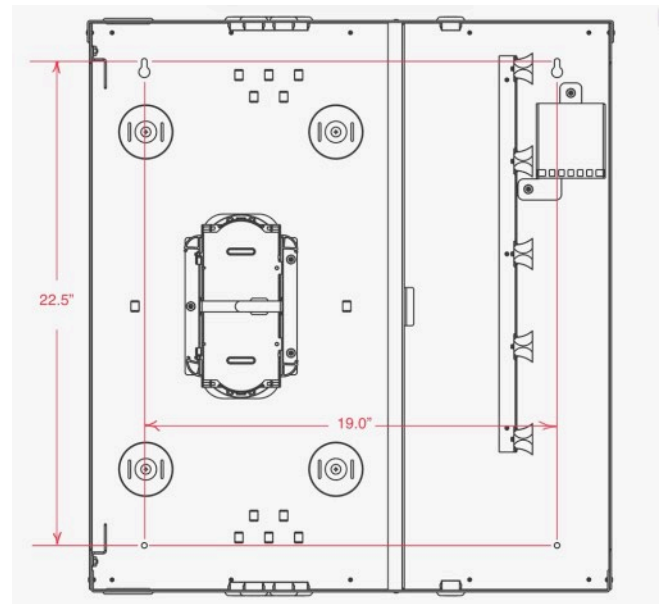
Caution: Caution is used to indicate the presence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided.

Alert! Only qualified personnel may install this product.

3.1. Wall Mounting

The cabinet should be secured to a stable surface with appropriate fasteners. The cabinet should be securely mounted prior to any field installation of feeders or distribution fibers. If pre stubbed, take care when securing the fasteners to prevent damage to the fibers.

- 3.1.1. The 216 Port Distribution Hub requires a wall space of 24.5" W x 26.75" H.
- 3.1.2. Depending on the wall, .125" pilot holes can be drilled first using the dimensions shown.
- 3.1.3. Screw in the top two screws half way in to the wall and then slide the box onto the top two screws. Level the box and tighten the screws.
- 3.1.4. Install the bottom two screws to lock the box in place.



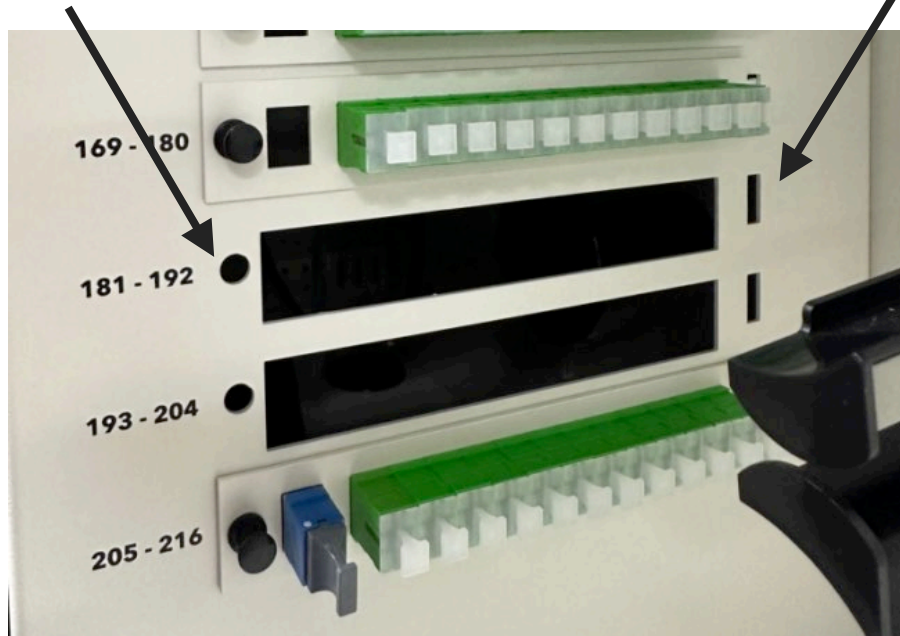
3.2. Installing 13 Pack Adapter Plates

- 3.2.1. Modular 13 Packs are installed by engaging the offset tab into the vertical slots located at the rear of the panel. Insert the tab into the slot and press the 13 Pack against the bulkhead. Then depress the Snap Latch into the hole to lock into position.



Press snap latch into hole to lock into place.

Insert the tab into this slot.



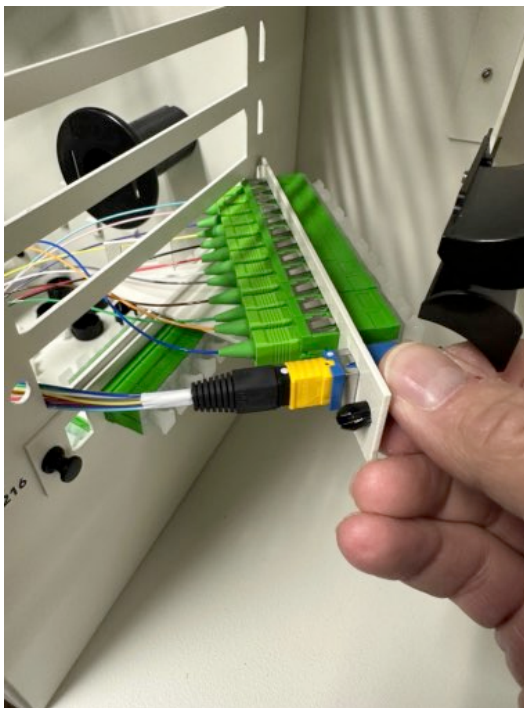
3.2.2. Feeder fiber 13 Pack is installed at the top slot of the bulkhead



- 3.2.3. It is suggested that distribution 13 Packs be installed starting at the bottom rather than from the top down. This will help to reduce installation congestion as distribution or MPO 13 Packs are installed in the future.



- 3.2.4. When installing MPO 13 Packs take care passing the angled plate, MPO bend relief boot and 900µm fibers through the slot in the bulkhead. Avoid bending or otherwise traumatizing the assembly while positioning the 13 Pack and securing the snap latch.



3.3. Splitter Installation and Distribution

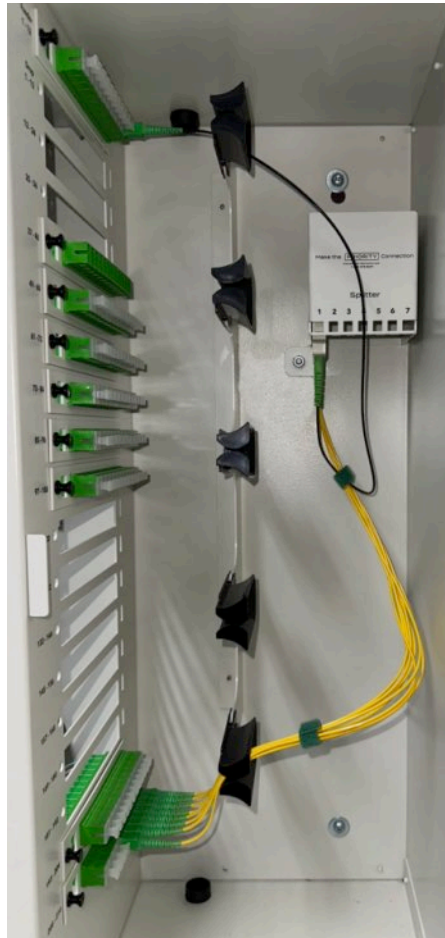
- 3.3.1. Remove splitter from it's packaging. Prior to installing the splitter into the bracket take note of the serial number label on the bottom of the splitter. Record the serial number on the appropriate documentation.
- 3.3.2. Insert the splitter up into the splitter bracket until you hear a click, now the splitter is locked into place.



- 3.3.3. Route the splitter input leg (Black) to one of the feeder or pass-through ports at the top of the bulkhead. Inspect the connector with appropriate inspection gear, clean if necessary and install the connector into the appropriate feeder adapter.



- 3.3.4. Organize the output legs to any of the distribution ports. Starting at the bottom of the bulkhead route the output legs (yellow) toward the couplers in the Distribution 13 Packs or MPO 13 Packs. Inspect the connectors, clean if necessary and install them into the appropriate distribution adapter.



- 3.3.5. Any unused splitter legs can be stored in the provided foam parking lots.



Caution: All connectors should be inspected prior to installation and cleaned if necessary. Priority Electronics Ltd recommends the use of video inspection systems for visual inspection of connector end faces.

3.4. Suggested Splice Tray Routing and Splicing

The 216 Port Distribution Hub accommodates 9 splice trays with 24 splices each.

- 3.4.1. Starting with the first splice tray that clips into the splice tray mounting bracket, use this tray for the feeder fibers. Route the pigtails from the 13 Pack Adapter plate mounted at the top of the bulkhead into the top of the splice tray. NOTE: Splice is shown clipped into place, remove the splice tray and place it on a work surface directly in front of the cabinet.
- 3.4.2. Then route the incoming OSP (outside plant) into the cabinet with enough slack to reach the splice tray on the work surface and enter the bottom of the splice tray.
- 3.4.3. Finish splicing the fibers, attach the clear plastic lid onto the splice tray and clip into the mounting bracket. Route and tie down the cables using the cable management components as required.

Feeder Fiber 13 Pack
Pigtails

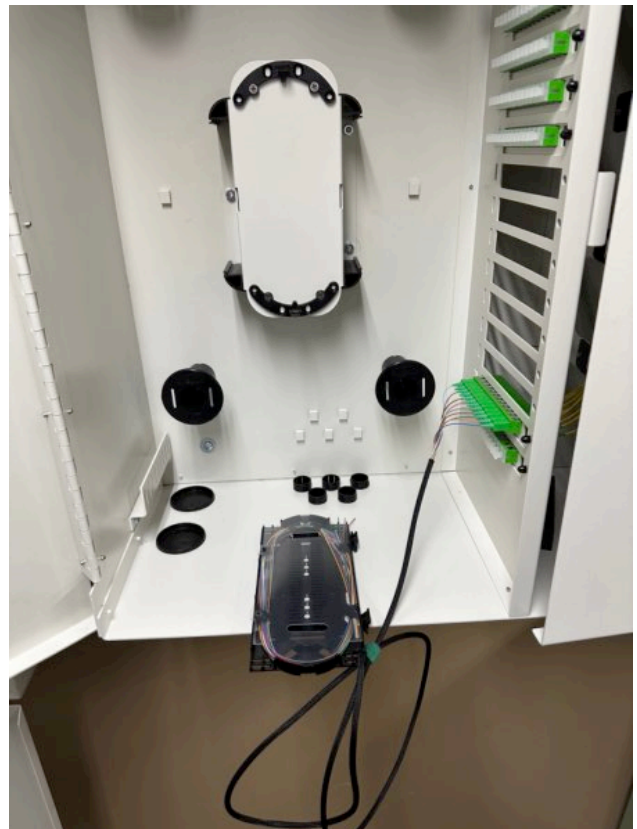
Incoming OSP cable



- 3.4.4. Follow the same suggested routing when splicing drop cable to 13 Pack Adapter Plates. Note: Start at bottom of bulkhead when attaching 13 Pack Adapter Plates, this will help to reduce installation congestion as distribution or MPO 13 Packs are installed in the future.



Shown with tray removed and slack provided to allow tray to be placed on work surface in from of cabinet to allow splicing.





Caution: All connectors should be inspected prior to installation and cleaned if necessary. Priority Electronics Ltd recommends the use of video inspection systems for visual inspection of connector end faces.

4. Notes: