SYSTIMAX® High-Density Sliding Fiber Shelf

General

The SYSTIMAX® HD-1U, HD-2U and HD-4U high-density sliding fiber optic shelves come equipped with modular pair trays, fiber management trough and steel top cover. Shelf will accommodate G2 and 360 InstaPATCH® distribution modules. These shelves are intended for indoor use, but may be used outdoors in a suitable enclosure.

Ordering information is listed below:

<table>
<thead>
<tr>
<th>Material ID</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>760209940</td>
<td>HD-1U</td>
<td>Modular HD 1U shelf, sliding with door and trough</td>
</tr>
<tr>
<td>760209957</td>
<td>HD-2U</td>
<td>Modular HD 2U shelf, sliding with door and trough</td>
</tr>
<tr>
<td>760209965</td>
<td>HD-4U</td>
<td>Modular HD 4U shelf, sliding with door and trough</td>
</tr>
</tbody>
</table>

How to Contact Us

- To find out more about CommScope® products, visit us on the web at www.commscope.com/
- For technical assistance:
  - Within the United States, contact your local account representative or technical support at 1-800-344-0223. Outside the United States, contact your local account representative or PartnerPRO™ Network Partner.
  - Within the United States, report any missing/damaged parts or any other issues to CommScope Customer Claims at 1-866-539-2795 or email to claims@commscope.com. Outside the United States, contact your local account representative or PartnerPRO Network Partner.

Tools Required

- Phillips-head screwdriver
Available G2 and 360 InstaPATCH® Modules and Accessories
(For Use with Modular Shelf)

Contact your SYSTIMAX sales representative for the latest information on the wide variety of modules and accessories that are compatible with this product, or visit the CommScope website [http://www.commscope.com](http://www.commscope.com).

**Parts List**

Verify parts against the parts list below:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shelf assembly</td>
</tr>
<tr>
<td>1</td>
<td>Hook-and-loop strip cable retainer kit</td>
</tr>
<tr>
<td>4</td>
<td>#12-24 x 1/2-inch screws for 19-inch (483mm) and 23-inch (584mm) rack mounting</td>
</tr>
<tr>
<td>4</td>
<td>M6 x 12mm screws for ETSI rack mounting</td>
</tr>
<tr>
<td>1</td>
<td>Instruction sheet</td>
</tr>
</tbody>
</table>

**Important Safety Cautions**

- Disconnected optical components may emit invisible optical radiation that can damage your eyes. Never look directly into an optical component that may have a laser coupled to it. Serious and permanent retinal damage is possible. If accidental exposure to laser radiation is suspected, consult a physician for an eye examination.
- Wearing safety glasses during installation of this shelf is recommended. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.

**Step 1 – Mount Shelf to Rack**

1. Determine the rack size and desired mounting location.
   - For 19-inch (483mm) rack – Mount shelf to rack using the pre-installed mounting brackets and four #12-24 x 1/2-inch screws (provided) as shown.
   - For 23-inch (584mm) rack – Reverse both existing mounting brackets. Mount shelf to rack using four #12-24 x 1/2-inch screws (provided).
Step 2 – Secure Fiber Cable to Shelf

Note: This shelf is designed for direct connection of fiber cables using cable glands inserted into cable attachment moldings provided. Another method for securing fiber cables is the use of optional rack mounted brackets, which is not covered here. See instruction sheet 860380781 for using rack mounted brackets.

Cable Assembly

1. Open rear door.
2. Slide top cover back to remove cover for access to cable routing.
   Note: HD-1U shelf top/rear cover is a one piece unit and slides off when the retaining latches are depressed.
3. Remove cable attachment molding from shelf as shown.
   Note: Number of moldings is specific to shelf U size. 1U shelf holds six cable attachment moldings, 2U has twelve and 4U has twenty four cable attachment moldings.
4. Remove gland nut from cable gland.
5. Slide cable attachment molding onto cable and secure threaded gland nut to hold molding in place as shown.
**Step 3 – Route and Secure Trunk Cable**

1. Feed cable assembly through cable attachment opening on side of shelf from outside of shelf side wall.

2. Loosely secure trunk cable to equipment rack upright approximately 3 inches (76mm) above or below shelf, using cable ties. Leave approximately 48-inch (2.1m) length of cable to route into shelf.

3. Fiber cables may enter from right side or left side of shelf.

4. Route subunit cables inside shelf as shown or according to local practices. Secure loose fibers together using supplied hook-and-loop strip.

   **Caution:** Do not exceed minimum bend radius of fiber. Do not attach fiber bundles to floor of chassis.

5. Fiber cable may be loosely secured to shelf using slots provided along rear of shelf with additional hook-and-loop strips.
Step 4 – Terminate Fiber Cable Inside Shelf – 360 InstaPATCH

1. **SYSTIMAX** HD fiber shelves have two modular pair trays per row. Modular pair trays slide to the front of the shelf separately as shown.  
   **Note:** Trays slide until reaching stop to prevent them from sliding out. Do not continue to pull tray past stop.

2. Mount trunk cable to shelf with cable gland, per Step 3.

3. Install **360 InstaPATCH** modules in modular pair trays. Verify that latches on either side of module snap into tray opening with an audible click.  
   **Note:** Remove module with a small flat blade screwdriver used to depress inner-most latch for release from modular pair tray position.

4. Pull subunit cables with MPO connectors through openings in front of shelf and terminate connectors to module.

**Step 5 – Remove Front Door**

1. Pull down on both door retaining latches and pull door forward to open pre-installed front door.

2. Open door 180° as shown on next page.

3. Pull up on door release latch.

4. While holding release latch up to clear hinge, slide door to left as shown and remove from hinge pins.

5. To re-install door, place door open at 180°, place door release latch over trough hinge tab while sliding both door hinge tabs back over trough hinge pins.
Step 6 – Install Label on Trough Door

Slide door left, remove from hinge pins

Trough hinge tab
Door release latch

Opened trough door

Door clips

Opened trough door

Label
1. The door may be fitted with labels visible through the door window when closed or may be visible when the door is open.

2. Open door to 180°.

3. Slide label onto door under clips on door, three on the top and three on bottom of door.

4. Slide label to left or right to secure (depending on label orientation). Note that there are small stops to resist label sliding past door edge.

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**Install Label on 1U Trough Door**

5. Printable label templates are available on the CommScope® website, which can be used along with available label stock to create finished port numbering labels.

   **Note:** To print a designation label, go to [http://www.commscope.com/Resources/Labeling-Templates](http://www.commscope.com/Resources/Labeling-Templates), scroll down to the SYSTIMAX® High-Density Fiber Shelf and select the appropriate label template.

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**Step 7 – Trough Removal (If Required)**

1. Using a screwdriver or similar tool, depress latching feature on sliding tray located on center support behind sliding tray module openings.

2. Hold tray still while pulling the trough forward until it releases from sliding tray.