High Density Multimedia Chassis Installation Instructions

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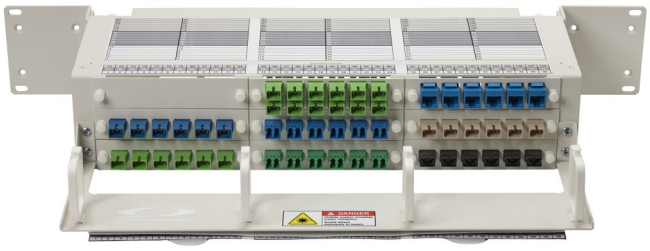


1.0 General Product Information

Description

All Systems Broadband's High Density Multimedia Chassis is a versatile new product that can accommodate both fiber and copper connectors. Among the fiber connection types available are SC/UPC, SC/APC, LC/UPC Duplex, and LC/APC Duplex; while other modules facilitate copper connections such as RJ45 or F-81. But the versatility does not stop there, as the High Density Multimedia Chassis can be mounted in various ways including 19 or 23 inch racks without any extra accessories. The panel can even be mounted directly to a wall either horizontally or vertically. The High Density Multimedia Chassis offers built -in cable management feature in both the front and rear.

2.0 Safety Precautions

 Danger: Direct eye exposure to laser light will cause serious eye damage. Avoid looking directly into an optical fiber, optical connector or optical adapter that is connected to an active source.

 Warning: Wear safety glasses to prevent accidental eye injury. Wear protective gloves and clothing to prevent accidental injury.

 Warning: Observe company policies and procedures regarding personal safety.

 Warning: Follow local and national safety and construction codes.

 Caution: Handle fiber optic cable per manufacturer's recommendation for minimum bend radius, maximum tensile loading, and maximum crush resistance.

3.0 Tools Required

- #2 Phillips Screwdriver
- Fiber Optic Cleaning Supplies
- Cable Preparation Tools

4.0 Package Contents

- High Density Multimedia Chassis Housing
- High Density Multimedia Chassis Standard Sub-Assembly Kit
  - Extra Plastic Fastener (push pin and grommet)
  - [10] Routing Rings
  - Port Assignment and Port Map Labels
  - Side Card Label
  - Laser Warning Label
  - Keystone 4-Pack Panel, Blank
  - Ground Lug Kit
  - Mounting Brackets and Hardware
    - [4] 12-24 x ¾ Phillips head
    - [4] 10-32 x ¾ Phillips head
    - [8] 8-32 x ¼ Phillips pan head screws
    - [4] 8-32 x ⅜ Phillips flat head screws
  - Installation Instructions
  - Mounting Template
- Adapter Panels (if included in ordered configuration)

Fig. 1

Location of plastic fasteners that secure cover.

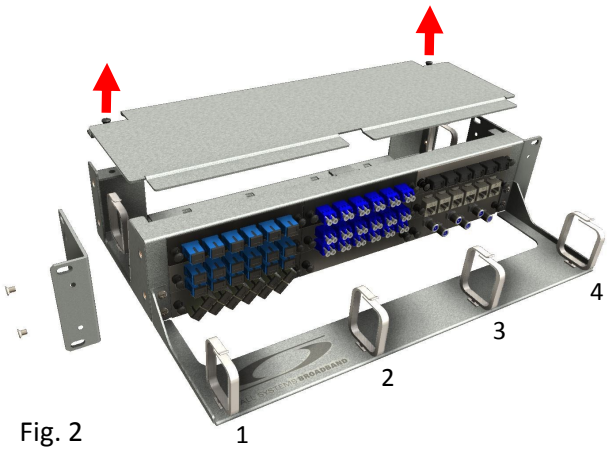


Fig. 2

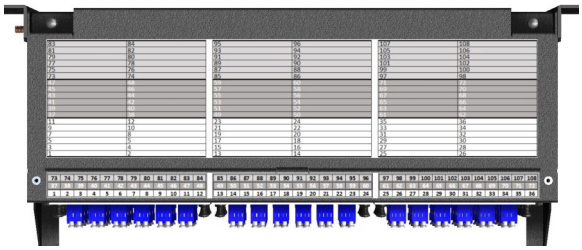


Fig. 3

Locations for routing rings: Place over square hole and press down. This works best if you press on the inside lower part of ring.

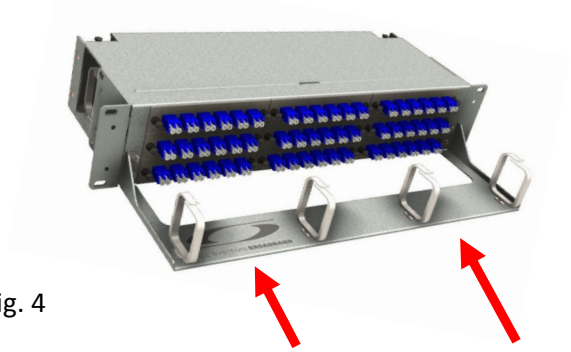


Fig. 4

Slide card placed under Cable Management Bracket.

The High Density Multimedia Chassis is a modular and highly configurable product. Multiple component kits are available for this product which encompass a wide range of components for varied applications. Component kits may be selected at the time of order using the ordering guide section of the product datasheet.

Installing the Product

5.0 Unpacking

Ensure all components are available per the configuration ordered.

6.0 Assembly

1. Install the Cable Management Bracket onto the housing with [4] 8-32 x 1/4 Phillips pan head screws; 2 per side (Fig. 1).
2. Snap the plastic routing rings into each of the four positions in the Cable Management Bracket by pressing down (Fig. 2).

   Note: Preferred method is to press down on the inside bottom of the ring. Make sure the routing rings are fully inserted.

   Additional routing rings can be placed inside the housing (side and/or rear locations) as needed (Fig. 5).
3. To remove the top panel, pull up on the two plastic pins located in the rear of the shelf (Fig. 2).
4. Re-install the top panel by inserting front tabs under the front side of housing first, then align rear fasteners. After making sure the panel is flush, secure by pushing down on the plastic pins.
5. Install the Port Assignment and Port Map Labels – Remove the label(s) from accessory bag, peel off the backing and apply to the top of the housing (Fig. 3).
6. Installation of Slide Card – Fold along perforation with plastic coating side facing out. With finger tabs towards the front, insert the folded slide card into slot under the Cable Management Bracket (Fig. 4).
7. Install the Laser Warning Label – Remove the label from accessory bag and apply to the top of the Cable Management Bracket or other prominent location, per company policy and procedures concerning safety.

7.0 Rack Mount Installation

Bracket mounting for a 19” rack is highlighted in the illustration (Fig. 4).

1. For 19" rack mounting, be sure the long side of the mounting bracket lays against the housing.

There are 4 routing rings on Cable Management Bracket and 6 more possible locations inside the housing (Fig. 5).

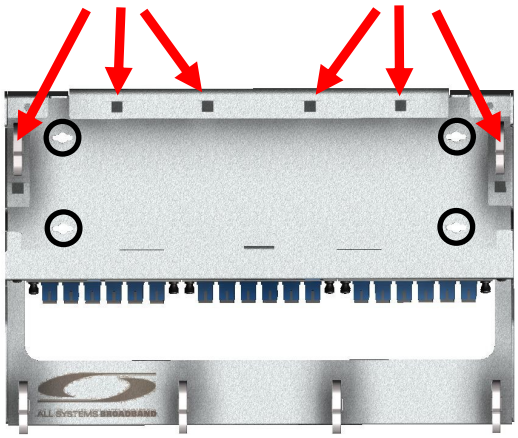
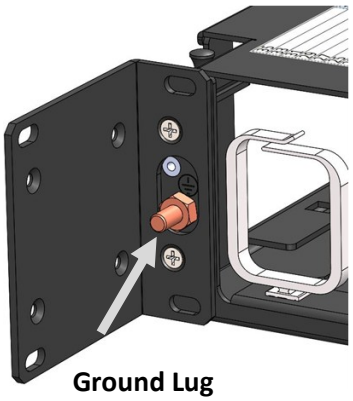


Fig. 5

Note: Figures 6 & 7 show mounting brackets turned to the outside. However the mounting bracket can be reversed and turned to the inside as well.

Fig. 6



Ground Lug

Fig. 7

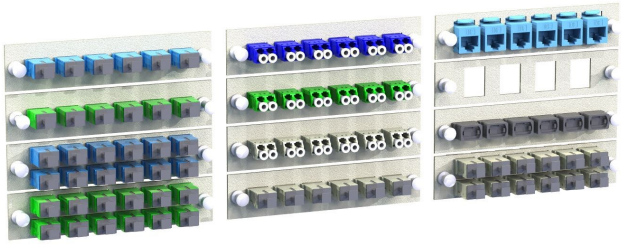


Fig. 8

2. For 23" rack mounting, be sure the short side of the mounting bracket lays against the housing.
3. Attach the brackets to the housing for desired frame width using the (4) 8-32 x 3/8 Phillips flat head screws (2 per side).
4. To mount the housing to the rack, use the provided 12-24 x 3/4 or 10-32 x 3/4 screws located in the Standard Sub-Assembly Kit depending on threads in your rack.

8.0 Wall Mount Installation

The versatile housing design allows for a variety of wall mount options in both vertical and horizontal orientations (Figs. 5 & 6).

Note: The mounting pattern on the bottom of housing or the mounting template can be used to mark the wall when mounting flat against the wall (Fig. 5), or when mounting the back side to the wall when the mounting bracket flanges are turned in-board (to save wall space). When the mounting bracket flanges are turned in-board, attach brackets to housing using the (4) 8-32 x 1/4" Phillips pan head screws (2 per side).

The mounting brackets can also be mounted in the more typical way, with flanges facing outboard.

9.0 Grounding

All grounding should follow local codes and practices. The housing has two grounding locations; one on each side near the back (Fig. 7).

One ground lug is provided in the accessory kit.

Note: With mounting brackets positioned at the rear of the housing, there are clearance slots provided for ground lug installation.

10.0 Modular Adapter Panel

The High Density Multimedia Chassis can accommodate up to nine (9) adapter panels with a total port count of up to 108 adapters or more. In addition to fiber adapter panels, there are also "blank" panels and panels for copper connections such as RJ45 or F-81 connectors (Fig. 8).

Note: When adding adapter panels it is recommended to start with the bottom row and work up to maximize access.

1. Determine the location and type of adapter panels needed. Pull the panel plastic fasteners pin outward, then place panel in holes and press pins in to secure panel.
2. Panels can be placed in any of the open slots in the housing.
3. Route and store cables as needed using plastic ring clips.

11.0 Connector Cleaning

– Recommended prior to product usage

Note: Utilize connector and adapter protective caps whenever possible; however, this practice does not guarantee cleanliness of the optical interface.

Before connecting, or after each disconnect, it is recommended to perform the following cleaning procedure. A connector inspection scope, lint-free wipes and optical cleaning solvent are necessary equipment.

This procedure conforms to the IPC 8491-1, "Cleaning Methods and Contamination Assessment for Optical Assembly."

- Make sure the fiber is not active.
- Remove the protective caps.
- Gently wipe the connector ferrule end with a lint-free wipe.
- Verify the cleanliness of the connector with an inspection scope.
- If necessary, gently wipe the fiber end with a lint-free wipe moistened with a small amount of cleaning solvent. Then dry with a clean lint-free wipe.
- Verify the cleanliness of the connector with an inspection scope.

12.0 Customer Service

1-877-272-4984

customerservice@allsystemsbroadband.com
www.allsystemsbroadband.com

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