

# iPatch® Ready Upgrade Module for SYSTIMAX 360™ iPatch® PATCHMAX® Modular Panels Instruction Sheet

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These instructions describe how to install iPatch® Ready Upgrade Modules to convert standard SYSTIMAX 360™ PATCHMAX® Modular Panels to iPatch panels. A single upgrade module is used to upgrade a 24-port panel. Two upgrade modules are used to upgrade a 48-port panel. The upgraded patch panels can be used in an iPatch System for both EIA-T568A or EIA-T568B wiring applications. The iPatch Ready Upgrade Module is a SYSTIMAX® approved product.



Ordering information is listed below.

Material ID	Product Code	Description
760130419	360-iP-UP-KIT-PMAX-24	360 iPatch PATCHMAX 24-port upgrade (for 10 panels)
760130427	360-iP-UP-KIT-PMAX-48	360 iPatch PATCHMAX 48-port upgrade (for 5 panels)
760149096	360-iP-JMPR-PMAX	360 iPatch PATCHMAX Cable Bus Jumpers (10 jumpers)

Save these instructions.

## Important Safety Instructions

To reduce the risk of fire, electric shock, and injury to persons, read, understand, and adhere to the following instructions as well as any warnings marked on the product.

### ⚠ CAUTION

*Remote risk of electric shock. Never install the product in wet locations or during lightning storms. Never touch uninsulated communication wires or terminals.*

**Note:** All wiring that connects to this equipment must meet applicable local and national building codes and network wiring standards for communication cable.

**Important:** iPatch Ready Upgrade Modules use infrared sensing technology and should be installed where they are not exposed to direct sunlight or other infrared sources.

## Task Overview

To convert a rack with standard SYSTIMAX 360 PATCHMAX Modular Panels to SYSTIMAX 360 iPatch Panels for use with an iPatch System, you must perform the following tasks:

- Task 1. Mount a panel bus for the rack.
- Task 2. Install an iPatch Manager to supervise the rack.
- Task 3. Install the iPatch Ready Upgrade Modules.
- Task 4. Program the order of the panels in the rack.

## Task 1. Mount the Panel Bus

A panel bus must be installed on each rack where you plan to upgrade panels. The panel bus allows the iPatch Manager and iPatch Panels to communicate. Also, the iPatch Manager supplies power to the iPatch Panels through the panel bus.

The panel bus must be installed to the left on the rack (viewed from the front). The preferred location is the back corner of the rack's left rail. The area where the panel bus will be mounted must be free of protrusions, such as threaded inserts, nuts, and bolts.

**Note:** To mount the panel bus on a rack other than a 7-foot rack or on a rack with a hole pattern other than the universal hole pattern, contact your SYSTIMAX Solutions local account representative.

For instructions to install the panel bus for the rack, see the *SYSTIMAX® iPatch® System Panel Manager Guide*.



The iPatch System is covered by U.S. patents 6285293 and 6522737, and other U.S. and foreign patents and patents pending.

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## Task 2. Install the iPatch Manager

An iPatch Manager must be installed on each rack where you plan to upgrade panels. The iPatch Manager supervises the iPatch Panels in the rack and communicates with the iPatch System. For upgrade applications, we recommend using a Panel Manager.

We recommend mounting the Panel Manager in the 34th 1U slot up from the bottom of the rack so that the top of the unit is about 65 inches above the floor. For instructions to install and configure the Panel Manager, see the *SYSTIMAX® iPatch® System Panel Manager Guide*.

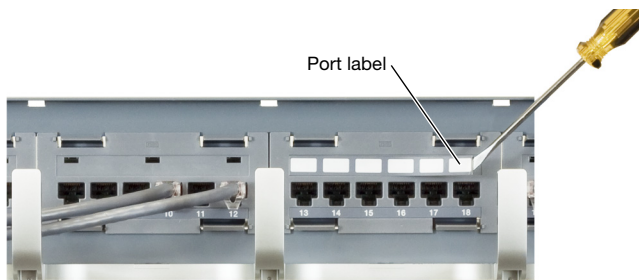
## Task 3. Upgrading PATCHMAX Modular Panels

Before you upgrade the panels in the rack, you must remove power from the Panel Manager for the rack. Next, install the iPatch Ready Upgrade Modules for the panels in the rack.

To upgrade an PATCHMAX Modular Panel, perform the following steps:

- 1 Remove power from the rack's Panel Manager.
  - 2 Grasp the front bezel along the top of the panel and pull it towards you until the 3 tabs along the top release (Figure 8). Set the bezel aside.
- Important:** *The upgrade process can be completed without removing any existing patch cord connections in the panel. Avoid disturbing the patch cords during the upgrade.*
- 3 Use a small, flat blade screwdriver to pry up the edge of the adhesive port label above the ports on the front of each module. Gently peel off and discard each label (Figure 1).

Figure 1 Removing the Port Label



- 4 Use a small, flat blade screwdriver to pry up the edge of the adhesive port number label below the ports on each module. Gently peel off the label without bending it.
- 5 Reapply the port number label above the ports on each module (where you removed the port label in Step 3) (Figure 2).

**Important:** *Place the port number label on the lower part of the area above the ports. Do not cover the 3 slots above the ports; these slots are used for attaching the iPatch Ready Upgrade Module to the panel.*

Figure 2 Removing and Reapplying the Port Number Label



- 6 Apply an adhesive gray label below the ports on each module (where you removed the port number label in Step 4) (Figure 3).

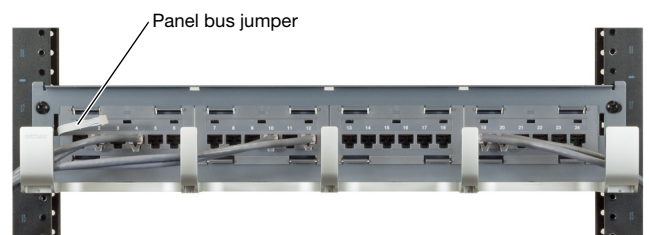
Figure 3 Applying the Gray Label



- 7 Feed the end of the panel bus jumper with the small connector from the inside of the panel through the rectangular opening in the left front of the panel (Figure 4).

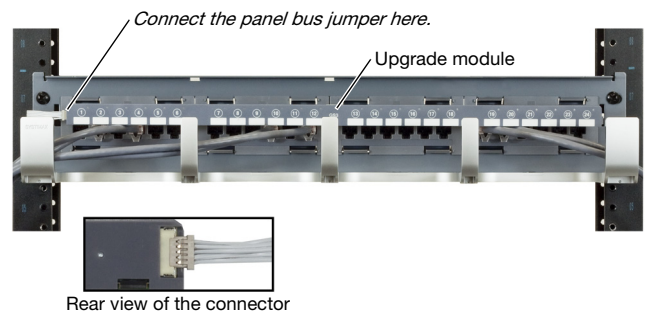
**Note:** The connector is keyed. Orient the panel bus jumper with the metal conductors on the small connector facing the rear of the panel.

Figure 4 Routing the Panel Bus Jumper Through the Front of the Panel



- 8 Align the iPatch Ready Upgrade Module with the front of the panel. Then, connect the panel bus jumper to the back of the module (Figure 5).

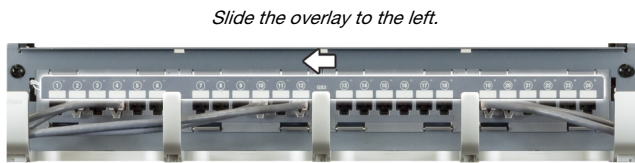
Figure 5 Aligning the Module and Connecting the Panel Bus Jumper



- 9 Place the upgrade module on the panel so the hooks on the back of the overlay fit into the front of the panel. While feeding any excess jumper cable through the slot, slide the module to the left until the hooks engage with the panel and the buttons align with the ports (Figure 6).

**Note:** When upgrading a 48-port panel, install an iPatch Ready Upgrade Module with ports 1 through 24 on the top of the panel and an upgrade module with ports 25 through 48 on the bottom of the panel.

Figure 6 Installing the Module

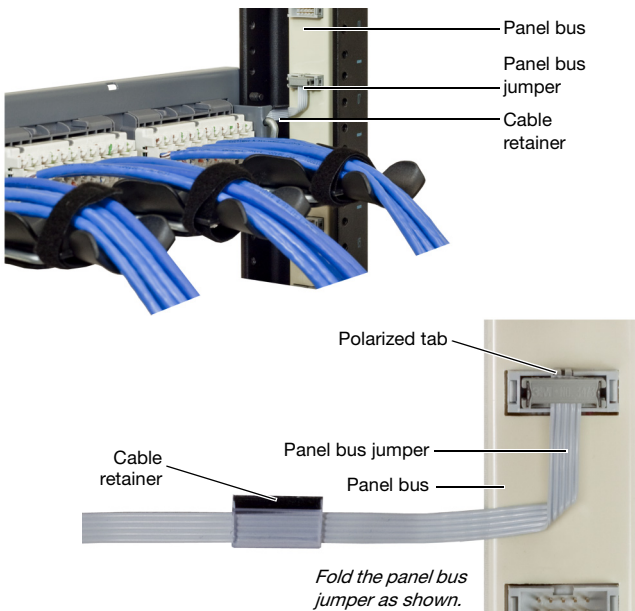


- 10 Position a cable retainer on the panel bus jumper as shown (Figure 7) and remove the adhesive backing from the cable retainer.
- 11 Connect the panel bus jumper to the nearest connector on the panel bus, folding the jumper as shown (Figure 7). Press the cable retainer against the rack.

**Note:** The connector is keyed. The polarized tab on the jumper connector fits into the opening in the header connector on the panel bus.

**Important:** For 48-port panels, connect both panel bus jumpers.

Figure 7 Connecting and Routing the Panel Bus Jumpers



- 12 Reinstall the front bezel that was temporarily removed in Step 2. Position the front bezel at an angle as shown (Figure 7) and insert the 2 bottom retention tabs into the slots on the patch cord management. Pivot the top of the bezel towards the panel until the 3 tabs on the top of the bezel snap into the panel.

Figure 8 Reinstalling the Front Bezel



## Task 4. Programming the Order of Panels

After you have upgraded the panels in the rack, you should restore power to the Panel Manager for the rack and program the order of the panels. For instructions, see the *SYSTIMAX® iPatch® System Panel Manager Guide*.

## How To Contact Us

To find out more about SYSTIMAX® Solutions, visit us on the web at [www.commscope.com/systemax](http://www.commscope.com/systemax)

For technical assistance regarding SYSTIMAX products:

- Within the United States, contact your local account representative or CommScope Technical Support at 1-800-344-0223.
- From outside the United States, contact your local account representative or Authorized BusinessPartner.