



## QUICK START GUIDE



MODEL: S16-POE

## Before You Begin

Download the Alta app on your mobile device, and create your free Alta account.



You may also visit **[manage.alta.inc](https://manage.alta.inc)** to manage your Alta devices.



# Package Contents



S16-POE



Rack Ears  
(Qty. 2)



Rack Ear Screws  
(M4x8.5mm, Qty. 8)



Rackstud™ DUO  
Studs (Qty. 2)



Rackstud DUO  
Nuts (Qty. 2)



SFP Port Plugs  
(Qty. 2)



Power Cord



**Note:** We recommend using the included mounting hardware for product installation.

## Installation Requirements

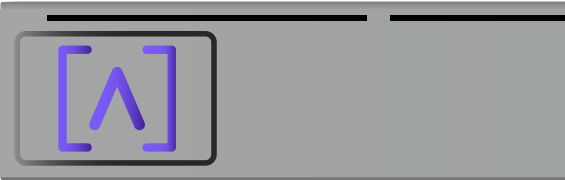
- Ethernet cabling (CAT 5 or above)
- Phillips screwdriver

# Hardware Overview

## Front

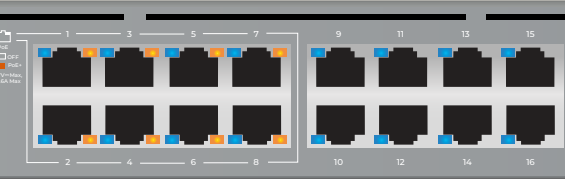


## Alta Labs LED



The Alta Labs LED flashes as the unit is powered up. Once fully booted, the LED will remain lit unless turned off in the UI. The LED color can also be changed in the management interface.

# Ports and LEDs



Ports 1-8 support 802.3at PoE+ with up to 30W per port and a PoE budget of 120 Watts. These ports are standard Gigabit Ethernet ports that support 10/100/1000 Mbps connections.

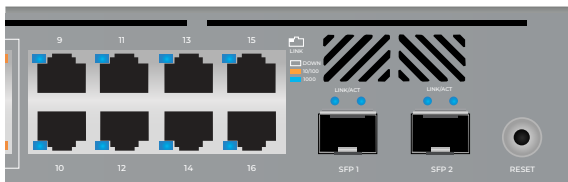
The **Link** LED on the left indicates a 10/100 Mbps connection when amber, blue indicates a 1 Gbps connection, and if not illuminated, the connection is down.

The **Activity** LED on the right will illuminate amber when a device connected to the port is being powered via Ethernet.



Ports 9-16 are standard Gigabit Ethernet ports that support 10/100/1000 Mbps connections.

The **Link** LED indicates a 10/100 Mbps connection when amber, blue indicates a 1 Gbps connection, and if not illuminated, the connection is down.

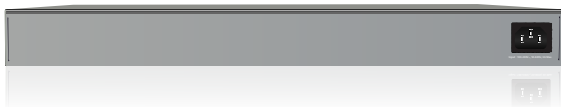


The SFP Ports support fiber optic and Ethernet transceivers with 1 Gbps connections.

The **Link** LED on the left will illuminate blue when there is a 1 Gbps connection.

The **Activity** LED on the right flashes blue when there is activity.

## Back



Be sure to use the included power cord to connect power.

## Side



The side panels feature cooling vents for fanless cooling.

# Hardware Installation

## Rackmount Installation

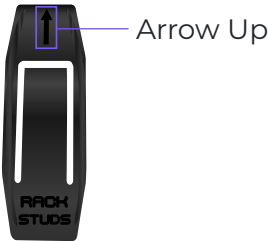
1. Connect the two Rack Ears to both sides of the switch using the eight Rack Ear Screws.



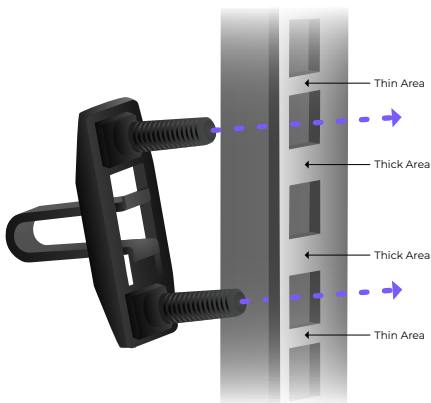
Note the cooling vents remain exposed with the Rack Ears connected.



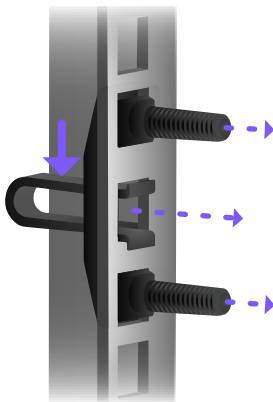
2. Ensure the arrow on the back of the Rackstud DUO stud is pointing up.



3. Insert the Rackstud DUO stud at the beginning of the RU space just below the thin area.



4. Compress the spring and insert the Rackstud DUO stud from behind the rail.



5. Repeat the same procedure on the opposite rail on the rack.

- Slide the switch over the Rackstud DUO stud and apply pressure to the front face while installing the Rackstud DUO nuts to the bottom on both sides of the switch.

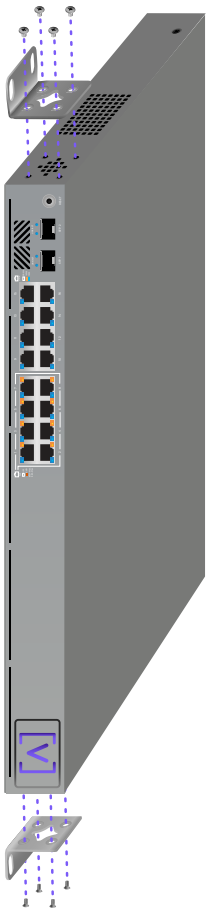


- Connect the top Rackstud DUO nuts on both sides of the switch.

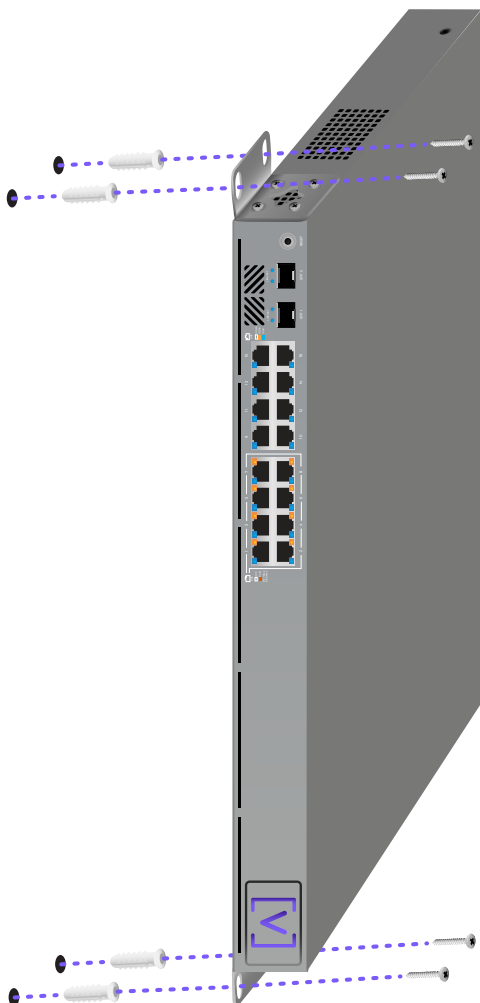


# Mounting On A Wall

- 1. Connect the two Rack Ears to both sides of the switch using the eight Rack Ear Screws. Be sure to orient the Rack Ears so the openings face the wall.

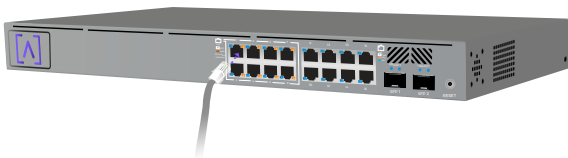


2. Use wall screws and anchors (not included) to secure both sides of the switch to the wall.



## Connecting Devices

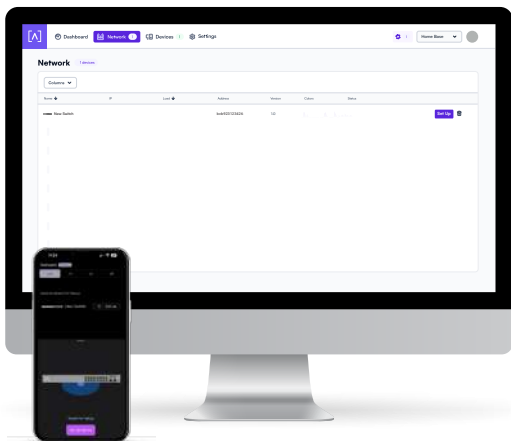
1. Connect devices that need Power over Ethernet to any of the first eight ports. The ports are autosensing. Devices that do not require power can be connected to any of the 16 ports.



2. Follow the instructions included with your transceivers to connect them to the SFP ports. If not using the ports, be sure to place the SFP Port Plugs over the ports.

## Set Up Your Device

1. Follow the instructions in the Alta app or management interface to set up your switch.



## S16-POE Specifications

| Mechanical      |                                           |
|-----------------|-------------------------------------------|
| Dimensions      | 44 x 254 x 441.5 mm<br>(1.7 x 10 x 17.4") |
| Weight          | 3.6 kg (7.9 lbs)                          |
| Material Type   | SGCC                                      |
| Material Finish | Powder coat - Matte                       |
| Color           | Metallic gray                             |

| Ports                   |                       |
|-------------------------|-----------------------|
| Interface Ports         | (16) 10/100/1000 Mbps |
| SFP/SFP+                | (2) SFP               |
| Switching Capacity      | 36 Gbps               |
| Non-blocking Throughput | 18 Gbps               |
| Forwarding Rate         | 26.8 Gbps             |
| PoE Budget/Max          | 120 Watts             |
| PoE Supply              | 30 Watts per port     |
| Per Port PoE            | (8) 802.3at PoE+      |
| Non-PoE Ports           | (10)                  |

| LEDs    |                                         |
|---------|-----------------------------------------|
| PoE     | Orange                                  |
| Network | Orange: 10/100 Mbps,<br>Blue: 1000 Mbps |
| SFP     | Blue - Link/Activity<br>(1000 Mbps)     |

| Hardware                  |                      |
|---------------------------|----------------------|
| Packet Buffer             | 4.1 Mbit             |
| Mac Table Size            | 8 K                  |
| Energy Efficient Ethernet | Yes                  |
| Management                | Factory reset button |
| Bluetooth                 | Yes, Setup           |

| Power                          |                                                |
|--------------------------------|------------------------------------------------|
| Max Power Consumption w/o PoE  | 23 Watts                                       |
| Max Power Consumption Full PoE | 143 Watts                                      |
| Power Supply                   | Universal AC, 100 - 240VAC<br>50/60Hz Internal |
| RJ45 Port Surge Protection     | 12kV for ESD - contact, 25kV<br>for ESD - Air  |

| Environmental         |                             |
|-----------------------|-----------------------------|
| Mounting              | Rackmount                   |
| EMI Rating            | EMI Class-A with 3dB margin |
| Cooling Fan           | No (Fanless cooling)        |
| Operating Temperature | -5 to 50° C (23 to 122° F)  |
| Operating Humidity    | 10 to 90% Noncondensing     |
| Certifications        | CE, FCC, IC                 |

# Compliance

## Federal Communication Commission Interference Statement

This product has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC Caution

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This device is restricted to indoor use.

## Non-Modification Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **FCC Radiation Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

## **CAN ICES-003(A) / NMB-003(A)**

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## **ISED Radiation Exposure Statement:**

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

The transmitter module may not be co-located with any other transmitter or antenna.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.



**ALTA**  
LABS

## **Community Forum**

 [forum.alta.inc](https://forum.alta.inc)

## **Technical Support**

 [help.alta.inc](https://help.alta.inc)

All specifications are subject to change without notice.  
Alta Labs products are sold with a limited warranty:  
[alta.inc/warranty](https://alta.inc/warranty)

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