



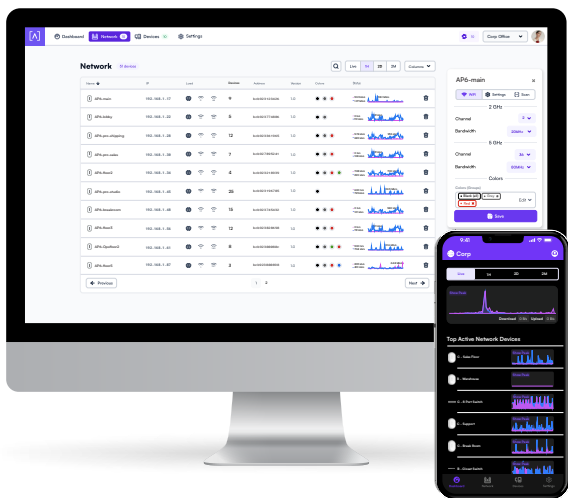
QUICK START GUIDE



MODEL: S12

Before You Begin

Create your free Alta account to manage your Alta devices. Visit manage.alta.inc or download the **Alta Networks** app.



Package Contents



S12



Rack Ears
(Qty. 2)



1U Rackmount Bracket
(Qty. 1)



Rack Ear Screws
(M3x6mm, Qty. 8)



Rackstud DUO
Nuts (Qty. 4)



Rackstud™ DUO
Studs (Qty. 2)



Power Cord



SFP+ Port
Plugs (Qty. 12)



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

Installation Requirements

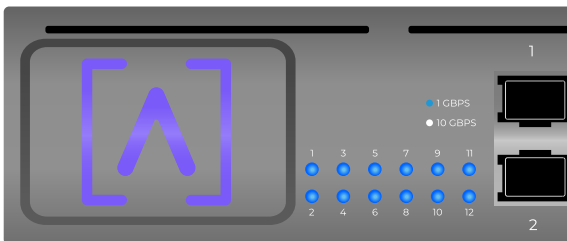
- DAC (Direct Attach Copper) Cable, Fiber Optic, or Copper Cabling and Transceivers
- Phillips screwdriver

Hardware Overview

Front



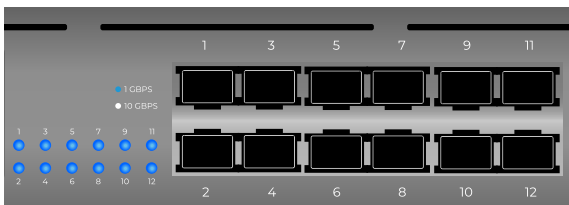
Alta Labs LED



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

All 12 ports on the S12 support SFP and SFP+ connections. DAC (Direct Attach Copper) cables can be used or fiber optic/copper cabling with transceivers.



The SFP+ Ports support fiber optic and Ethernet transceivers with 1 Gbps, 2.5 Gbps, 5 Gbps, or 10 Gbps connections.

The numbered **Link** LEDs on the left will illuminate blue when there is a 1 Gbps, 2.5 Gbps, or 5 Gbps connection, they will illuminate white with a 10 Gbps connection.

Reset Button

Press down for 10 seconds until the LED begins flashing to reset the S12 to factory defaults.

Back



A cooling fan vent is located on the back of the switch. Be sure to use the included power cord to connect power.

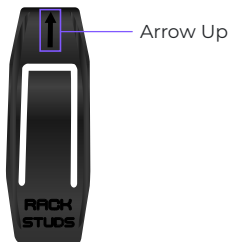
Hardware Installation

Rackmount

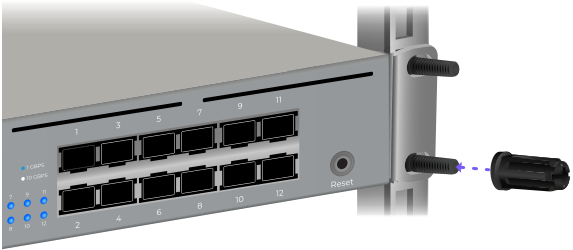
1. The 1U Rackmount Bracket can be positioned on either side of the S12. Connect the 1U Rackmount Bracket and one of the Rack Ears to the sides of the S12 using the eight Rack Ear Screws.



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



5. Repeat the same procedure on the opposite rail on the rack.
6. Slide the S12 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.



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

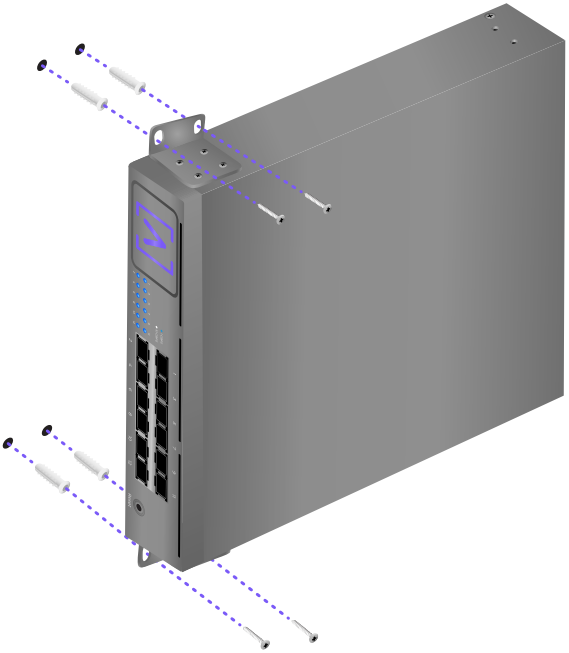


Mounting On A Wall

1. Connect the two Rack Ears to both sides of the switch using the eight Rack Ear Screws. The openings on the Rack Ears can face either the top or the bottom of the switch.

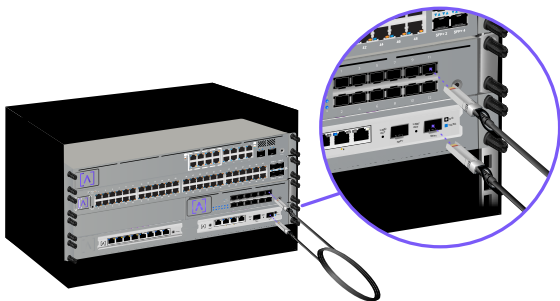


2. Use wall screws and anchors (not included) to secure both sides of the switch to the wall.

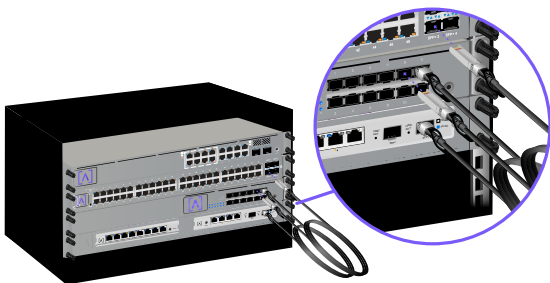


Connecting Devices

1. Use DAC (Direct Attach Copper) Cable, Fiber Optic, or Copper Cabling and Transceivers to connect devices from your S12 to your router and switches.



Connecting A Router

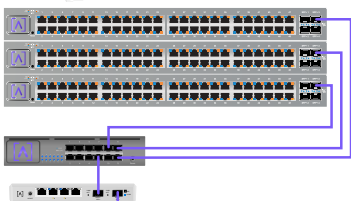


Connecting A Switch

2. If you are not using DAC cables, follow the instructions included with your transceivers to connect them. Be sure to use the SFP+ Port Plugs to cover any ports not in use.

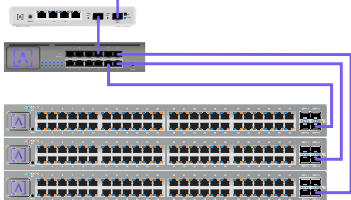
Connection Example: Site-to-Site VPN via Internet Connections

SITE 1



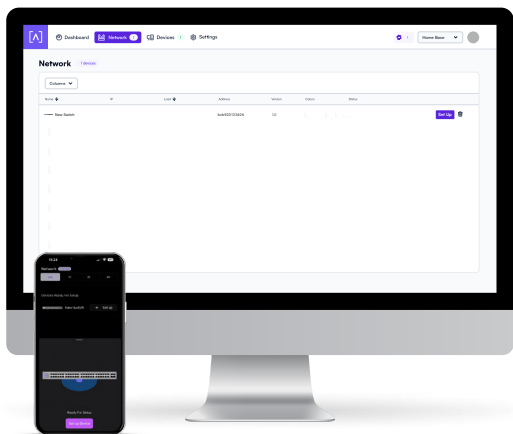
INTERNET SERVICE
PROVIDER

SITE 2



Set Up Your Device

1. Follow the instructions in the Alta app or management interface to set up your S12.



S12 Specifications

Mechanical	
Dimensions	331 x 229 x 44 mm (13.03 x 9.01 x 1.73")
Weight	4.4 kg (9.70 lbs)
Material Type	SGCC
Material Finish	Powder coat - Matte
Color	Metalic gray

Ports	
SFP/SFP+	(12) SFP+
Switching Capacity	240 Gbps
Non-blocking Throughput	120 Gbps
Forwarding Rate	178.6 Gbps

LEDs	
SFP/SFP+	Blue: 1 Gbps White: 10 Gbps

Hardware	
SDRAM	512 MB
Flash Memory	128 MB
Packet Buffer	16 Mbit packet buffer
Mac Table Size	32K
Energy Efficient Ethernet	Yes
Management	Factory Reset Button
Band	2.4 Ghz (For Bluetooth Setup)
Bluetooth Version	BLE

Hardware	
Total Power	6 dBm EIRP
Gain	2 dBi

Power	
Idle Power Consumption	10 W
Max Power Consumption w SFP Transceivers in All Slots	35 W
Power Supply	Universal AC, 100 - 240VAC 50-60Hz Internal

Environmental	
Mounting	Rackmount, Wallmount
Operating Temperature	0 to 50° C (32 to 122° F)
Operating Humidity	10 to 90% Noncondensing
IP Rating	None
EMI Rating	Class A
Cooling Fan	Yes
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

Technical Support

 help.alta.inc

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

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