ALTA LABS ROUTE 10 High Performance Gbps User Guide

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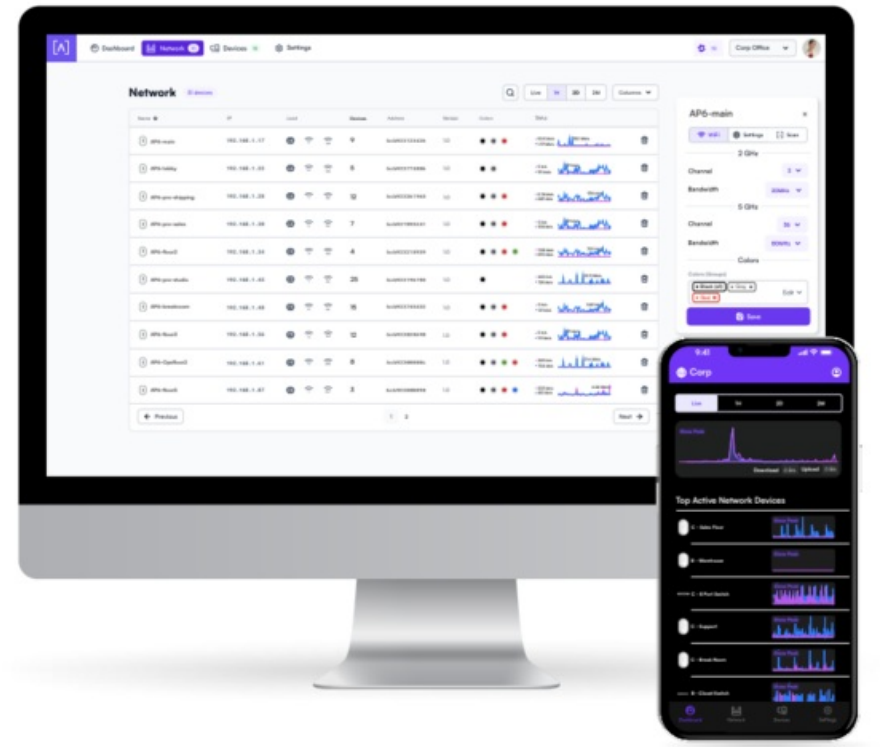
Before You Begin

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



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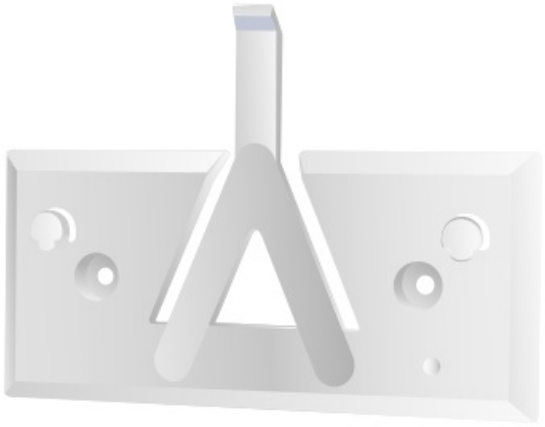
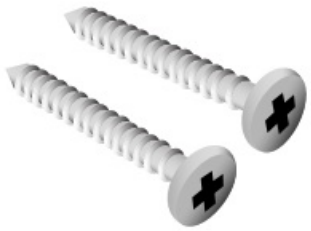
Package Contents

- Route 10

- Mounting Bracket



- Mounting Screws
  (M3x20mm, Qty. 2)



- Anchors
  (Qty. 2)

- Power Supply

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

Installation Requirements

- Ethernet cabling (CAT 5 or above)
- Phillips screwdriver (for mounting)
- Pencil (for marking mounting template)
- Drill and drill bit (for mounting)

Hardware Overview

Top

The Alta Labs logo LED on top of the device 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.

Bottom

The bottom of the device has padding for desktop placement and notches for mounting.

Front

Reset Button Press down for 10 seconds until the LED begins flashing to reset the router to factory defaults.

 Ports 1-4 are standard Gigabit Ethernet ports that support 10/100/1000/2500 Mbps connections.

The Link LED on the left indicates a 10/100 Mbps connection when amber and blue indicates a 1 Gbps connection. For 2.5 Gbps connections, the LED on the right will illuminate white. If neither port LED is illuminated, then the connection is down.
Ports 2 and 3 support 802.3at PoE+ with up to 30W per port and a PoE budget of 40 Watts.
The PoE LEDs are located below ports 2 & 3 with the icon next to them. They will illuminate amber when a device connected to the port is being powered via Ethernet.

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

The Link LED on the left will illuminate blue when there is a 1 Gbps, 2.5 Gbps, or 5 Gbps connection, it will illuminate white with a 10 Gbps connection.
The Activity LED on the right flashes blue when there is activity on a 1 Gbps, 2.5 Gbps, or 5 Gbps connection. It will flash white if there is 10 Gbps network activity.

Back

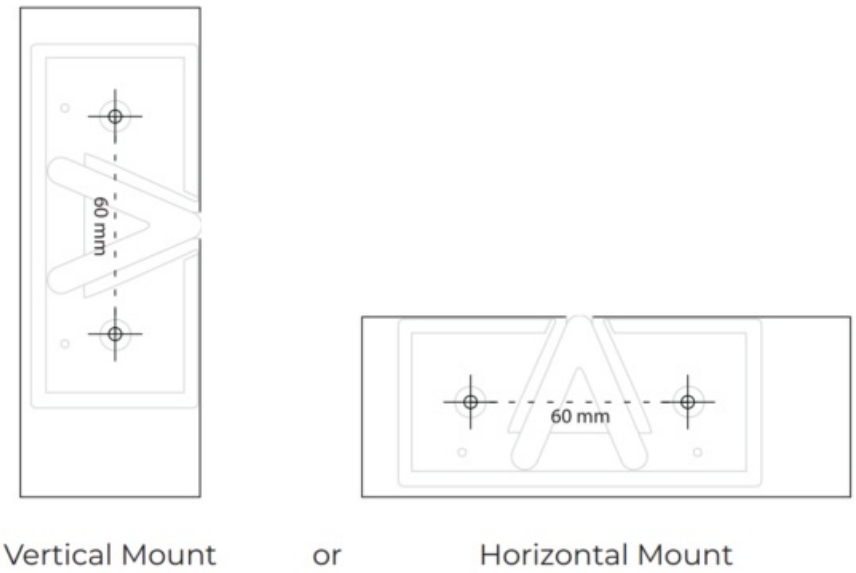
Power Port Be sure to use the included power cord to connect power.

Hardware Installation

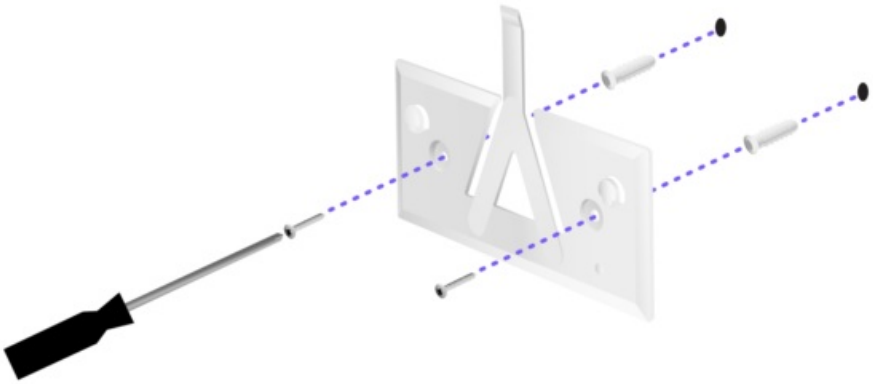
Mounting On A Wall

1. Locate the template included with the Quick Start Guide and Safety document.

2. Position the template in the desired location and use a pencil to mark the holes.

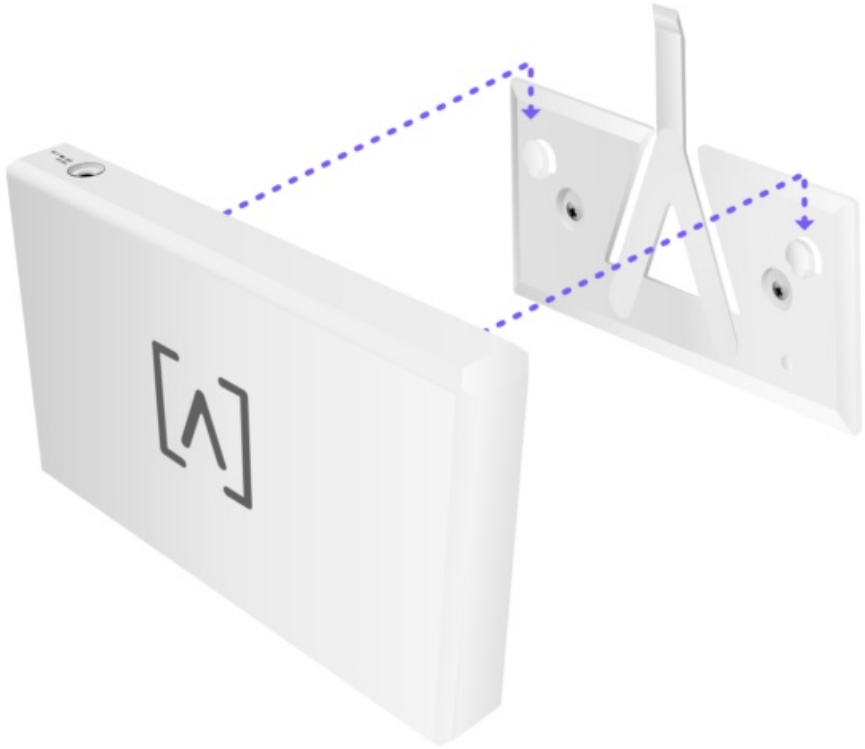


3. Secure the Mounting Bracket to the wall using the Mounting Screws and a Phillips screwdriver. Be sure to use the screws included with the product.
   If mounting on drywall, use the anchors to ensure secure mounting. Use a 6 mm drill bit to drill the holes for the anchors and insert them in the wall.



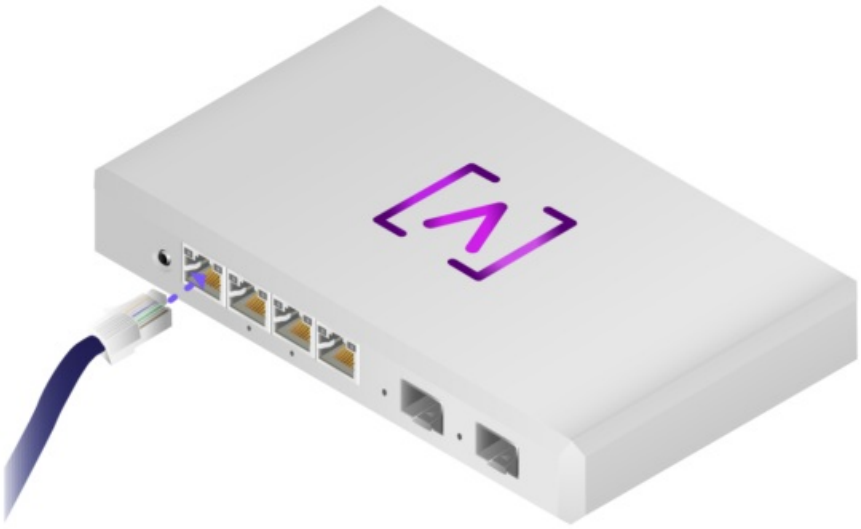
4. Align the router with the Mounting Bracket.

   Note: the Alta Labs A logo should be facing the same position on the mount and the router. Slide the notches over the tabs to lock Route10 into place.



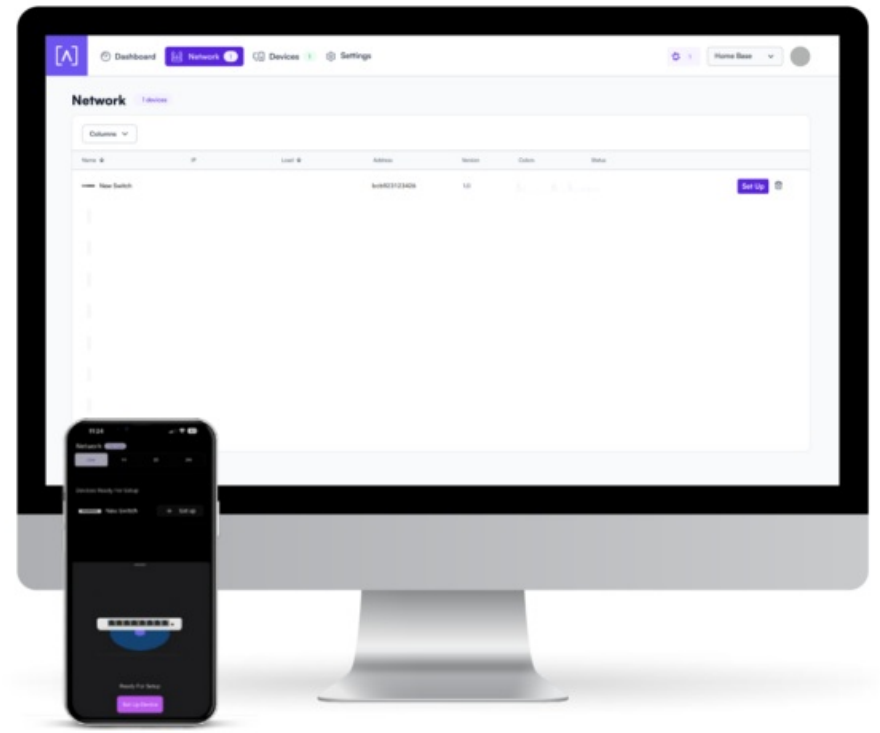
5. Connect the Power Supply to the Route10 and the other end to a power outlet.

Connect a computer or switch to your Route10 using a CAT 5 (or above) Ethernet cable.



Set Up Your Device

Follow the instructions in the Alta app or management interface to set up your Route10.



Route 10 Specifications

Mechanical	
Dimensions	180 x 110 x 29.8 mm (7.09 x 4.33 x 1.17″)
Weight	0.46 kg (1.01 lbs)
Enclosure Material	Top cover: polycarbonate Bottom cover: milled aluminum
Material Finish	Matte
Color	White
Mount Material	Injection Molded Plastic

Ports	
Network Interface	Ethernet, Bluetooth
Management Interface	(4) Autosensing 2500/1000/100/10 Mbps RJ45 Ports, (2) 10 Gbps/1.25 Gbps SFP+ Ports

LEDs	
PoE	Amber
RJ45	Amber (Left LED): 10/100 Mbps Blue (Left LED): 1 Gbps White (Right LED): 2.5 Gbps
SFP+	Blue: < 10 Gbps White: 10 Gbps
Status	RGB/Multi-Color

Hardware	
Processor	Quad-core Qualcomm 2.2 GHz
Button	Reset/Factory Reset
Network Interface	Ethernet, Bluetooth

Power	
Power Supply	Universal AC, 100 – 240VAC 50-60Hz External
Maximum Input Power Consumption	70W
POE Budget	40W
Per-Port PoE	(2) 802.3at POE+, PoE+ (54VDC, 0.6A Max)
PoE Ports	2
Bluetooth Version	BLE
Total Bluetooth Power	5 dBm EIRP
Bluetooth Gain	3 dBi
MAC Table Size	4k

Environmental	
Mounting	Locking Wall mount, Desktop
Operating Temperature	-5 to 50° C (23 to 122° F) With (1) 2W SFP+ Module: 45° C (113° F) With (2) 2W SFP+ Modules: 40° C (104° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC
RJ45 Port Surge Protection	12kV for ESD – Contact, 25kV for ESD – Air

Software	
VLAN	802.1Q
Easily Scale from Home to SM B to Stadium	Yes
Seamless Per- Client Settings	Yes
VPN Server	Yes, Multiple, Hardware-Accelerated
Actual Total Throughput	25 Gbps Combined Upload/Download
RADIUS Authentication	Yes
Deep-Packet Inspection	Yes
Intrustion Detection and Prevention Systems	Yes, at 10 Gbps
WAN Failover and Load-Balancing	Yes

Compliance

Federal Communication Commission Interference Statement

This product has been tested and found to comply with the limits for a Class B 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(B) / NMB-003(B)

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.

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.

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

Customer Support

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

Documents / Resources

	ALTA LABS ROUTE 10 High Performance Gbps [pdf] User Guide ROUTE 10 High Performance Gbps, ROUTE 10, High Performance Gbps, Performance Gbps, Gbps

References

- User Manual