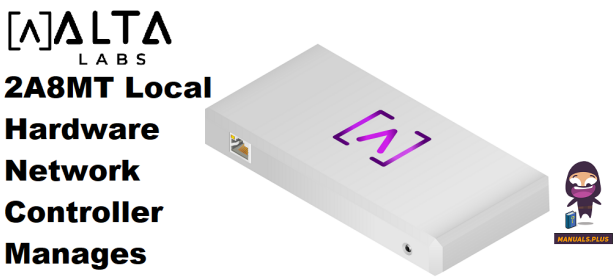
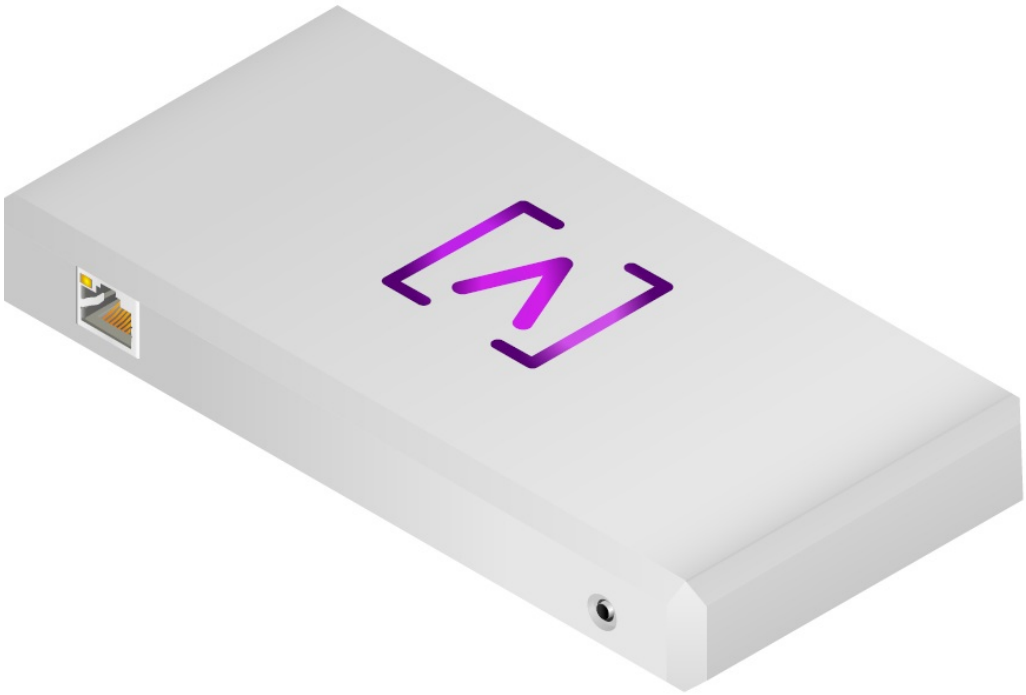


ALTA LABS 2A8MT Local Hardware Network Controller Manages User Guide

Contents

ALTA LABS 2A8MT Local Hardware Network Controller Manages



Specifications

- **Model:** Control
- **DC Input** / DC: 5V 1.827A
- **PoE Input** / AF AT: 54V 0.23A
- **Input:** 54V 2.5A

Product Usage Instructions

Installation Requirements

- Ensure all devices are running the latest firmware.
- Disable DNS rebinding protection on your router before installation.

Hardware Overview

The Alta Labs logo LED on top flashes during boot. The LED color can be changed in the management interface.

Front

- Port 1 is a Gigabit Ethernet port supporting 10/100/1000 Mbps connections. Connect to a PoE switch for power.
- **Reset Button:** Press for 10 seconds to reset to factory defaults.

Back

USB-C Power Port for powering with a USB-C cable and power plug.

Hardware Installation: Mounting On A Wall

1. Use included mounting hardware.
2. Position template, mark holes, and secure Mounting Bracket using provided screws.
3. If on drywall, use anchors for secure mounting.
4. Align the switch with the Mounting Bracket and lock it into place.
5. Power Control over Ethernet or USB-C cable.

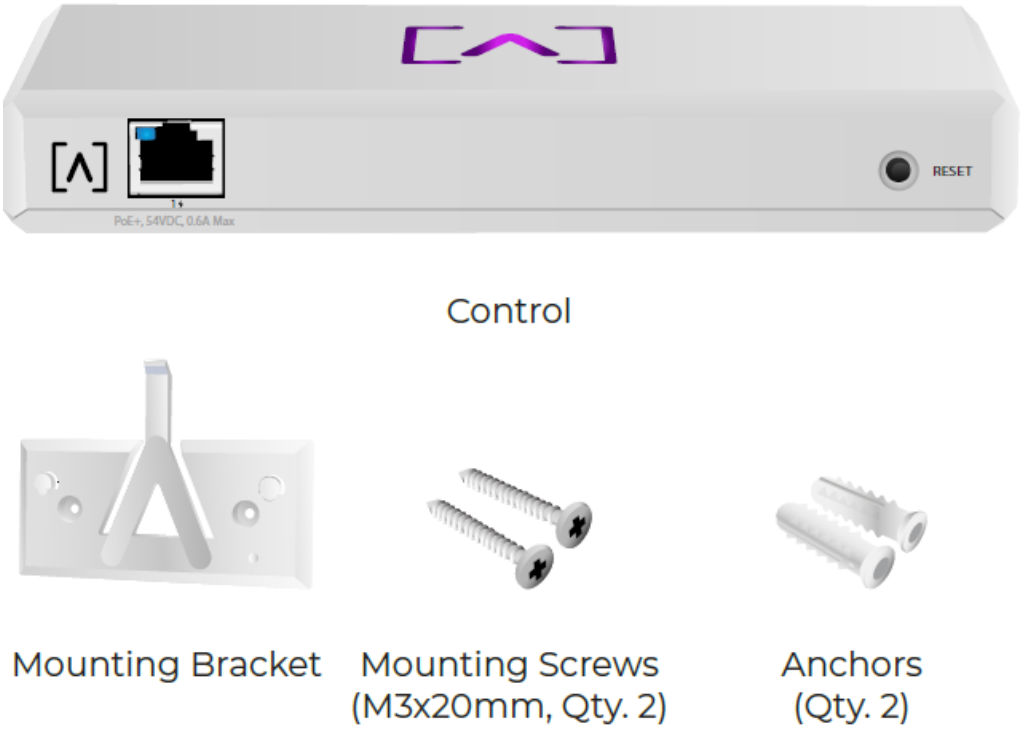
Setting Up Control

Power on Control and wait for the boot. Choose the configuration option for setup.

FAQ

- **Q: How do I reset the device to factory defaults?**
  - **A:** Press and hold the Reset button for 10 seconds until the LED starts flashing.
- **Q: Can I power the device using a USB-C cable?**
  - **A:** Yes, you can power the device using a standard USB-C cable and power source.

Package Contents



Installation Requirements

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

Before You Begin

- **Important:** Before installing Control be sure that all devices are running the latest firmware.
- To update your Alta devices, simply hold down the reset button as you power on the device for five seconds, and ensure that the device is on a network that has an Internet connection.
- **Important:** It is recommended that you disable DNS rebind protection on your router before installation.

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

- Port 1 is a standard Gigabit Ethernet port that supports 10/100/1000 Mbps connections. It can be connected to a PoE port on a power switch the device via Ethernet instead of using the USB-C port on the back.
- The LED indicates a 1 Gbps connection when blue and a 10/100 Mbps connection when amber. If the LED is not illuminated, the Ethernet connection is down.
- **Reset Button** Press down for 10 seconds until the LED begins flashing to reset the switch to factory defaults.

Back

- **USB-C Power Port** The device can be powered using a standard USB-C cable (not included) and a standard USB power plug or USB power source (not included).

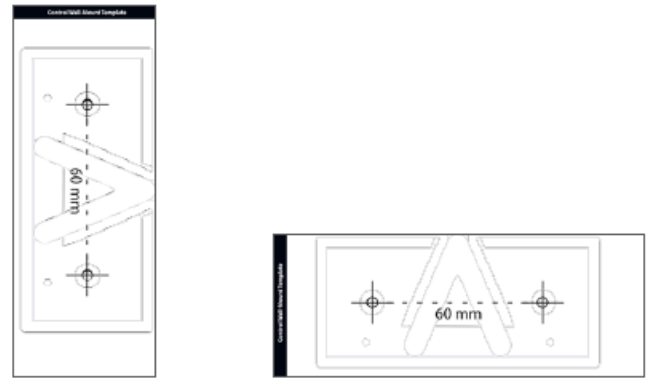
Hardware Installation

Mounting On A Wall

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

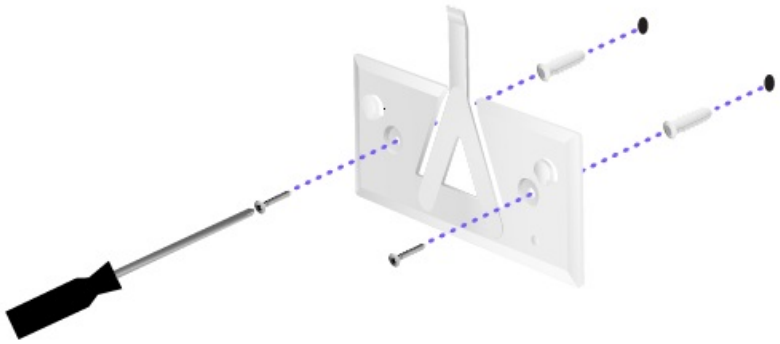
1. Locate the template included with the Quick Start Guide and Safety document.

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

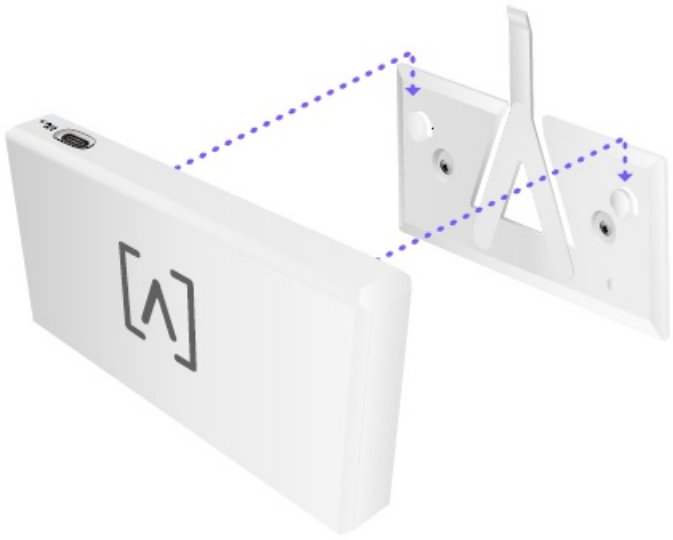


Vertical Mount or Horizontal Mount

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.

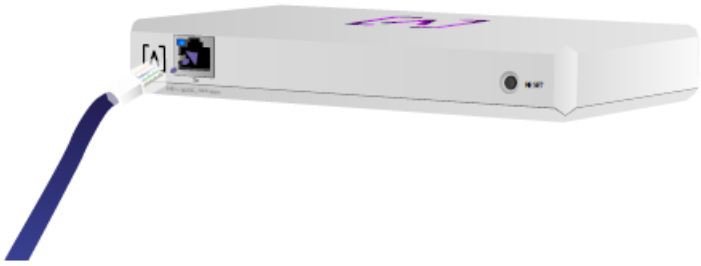


4. Align the switch with the Mounting Bracket.
    - **Note:** the Alta Labs A logo should be facing the same position on the mount and the switch. Slide the notches over the tabs to lock the switch into place.



5. Control can be powered over Ethernet or using a USB-C cable (not included).

    - Whether connecting data only or data + power, connect Control to your network switch using a CAT 5 (or above) Ethernet cable.

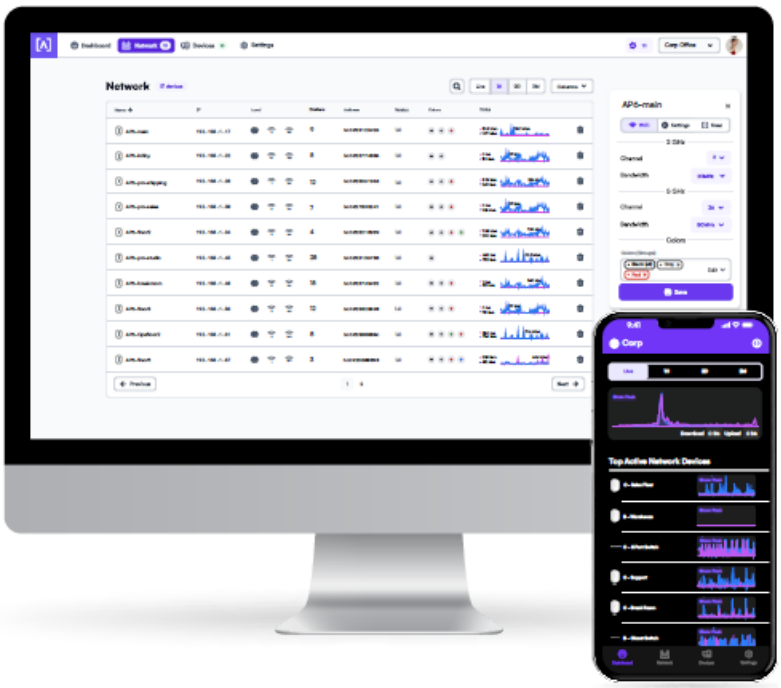


Setting Up Control

- Power on Control and allow it a minute to boot.

There are two configuration options:

- Use a web browser
- Use the Alta Networks mobile app



Web Browser

1. Open your web browser and enter the IP address of the Alta Control device. If you don't know it, log in to your router to identify it (or use the mobile app instead for setup).
2. Enter the email address of the administrator of the controller and click Activate. This user will have the ability to upgrade the controller, add administrator SSH keys, and perform other administrative abilities over the controller.

3. After a few minutes, you should be automatically redirected to the new URL of your controller. It should be something like **https://1234abcd.ddns.manage.alta.inc**.
    - **Note:** Be sure to bookmark this URL!
    - If you are not automatically redirected after 5 minutes, your router likely has DNS rebinding protection enabled, and you will need to use the mobile app to set up the device.
    - **Optional:** If you still want to use the web browser for setup, you can find the hostname for the URL by

manually reloading the page, and then adding the hostname to IP address mapping manually on your system (/etc/hosts or your router).

```
##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting.  Do not change this entry.

127.0.0.1       localhost
255.255.255.255 broadcasthost
::1             localhost
192.168.1.200   local1234abcd.ddns.manage.alta.inc
```

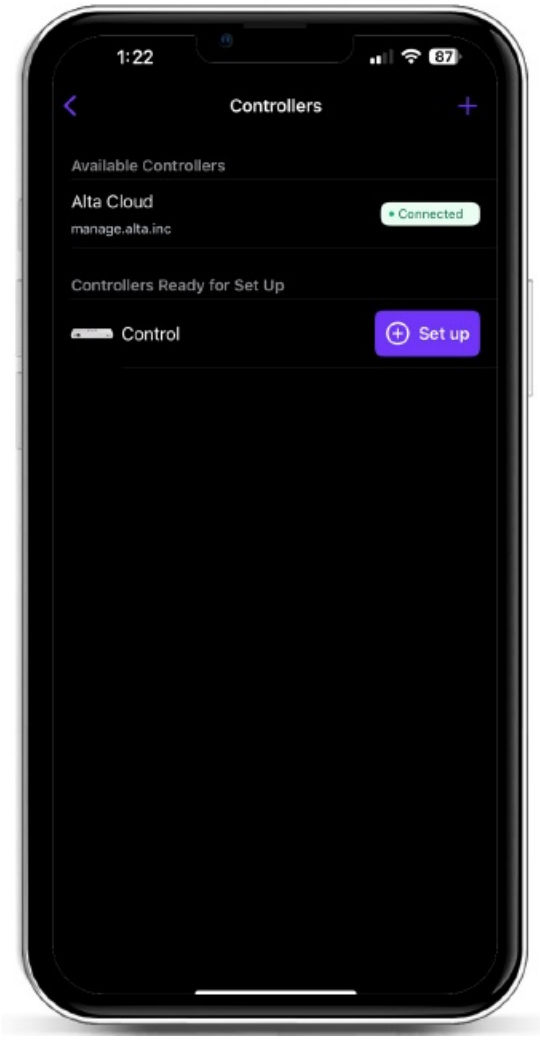
4. Create a new account on the controller. Be sure to use the same administrator email address that you used in step 2, to unlock administrator abilities for that account.
    - This account is not tied to your Alta Labs Cloud account at all. However, future releases will allow seamless integration to your Alta Labs Cloud account.

Mobile App

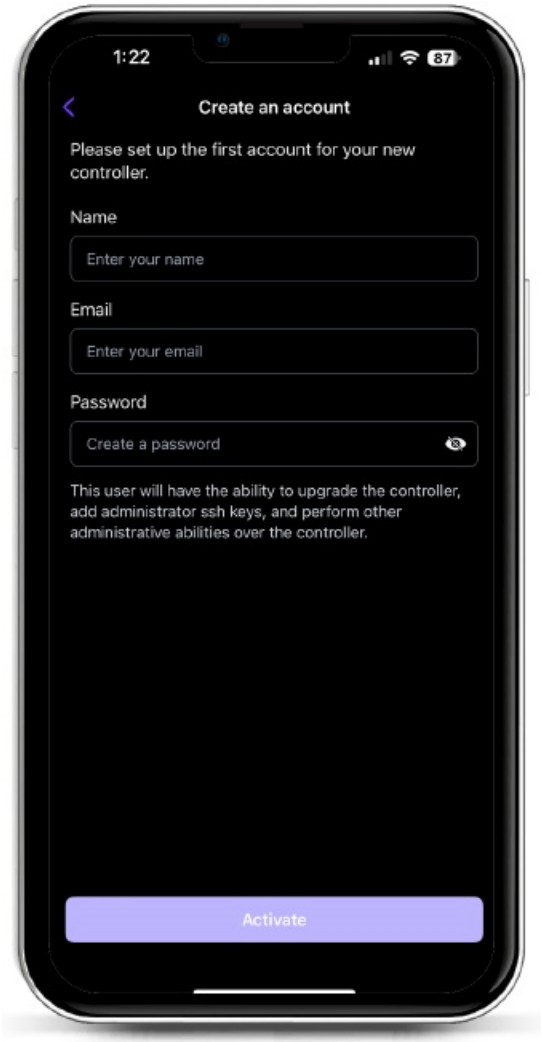
You can scan the QR code below to download the Alta Networks mobile app.

1. If the unconfigured controller isn't automatically presented to you within the app, tap on the Account icon in the upper right, and then tap on Controller.

2. Click Set up next to the Control hardware.



3. Enter the name, and email address of the controller administrator, and a password. This user will have the ability to upgrade the controller, add administrator SSH keys, and perform other administrative abilities over the controller.



4. Follow the steps within the app to create your first new user on the controller.
    - This account is not tied to your Alta Labs Cloud account at all. However, future releases will allow seamless integration to your Alta Labs Cloud account.

Setting up APs, Switches, and Routers on Your Control Device

1. Power on your Alta Labs Network equipment and give it time to boot up.
2. Devices that are on the same network as Control will automatically be discovered and presented for setup on your local controller.
3. If your network devices are on a different network than the controller, visit the IP address of the network device in your web browser.
4. Copy and paste the URL of your controller into the device's website. This should be something like: **https://1234abcd.ddns.manage.alta.inc or https://local.1234abcd.ddns.manage.alta.inc**

Advanced Notes about Dynamic DNS used by Alta Labs Control

- 1234abcd.ddns.manage.alta.inc will always resolve to the Internet/WAN IPv4 or IPv6 address of the controller
- local.1234abcd.ddns.manage.alta.inc will always resolve to the local IPv4 or IPv6 address of the controller
- Both of these hostnames will automatically update if the IP address of the WAN or LAN of the controller changes.
- You can port-forward any port on your Internet connection to port 443 of the Control device and then set network devices around the world to **https://1234abcd.ddns.manage.alta.** inc:1234, following the port you

have selected for port forwarding.

Alta Control Specifications

Mechanical	
Dimensions	25.7 x 91 x 180 mm (1 x 3.6 x 7.1″)
Weight	.38 kg (.83 lbs)
Material Type	Injection Molded Plastic
Material Finish	Matte
Color	White

Ports	
Network Interface	Ethernet, Bluetooth
Management Interface	(1) GbE RJ45 Port

LEDs	
Network	Orange: 10/100 Mbps, Blue: 1000 Mbps

Hardware	
Processor	Quad-core Qualcomm 2.2 GHz
Button	Factory reset
Bluetooth	Yes, Setup

Power	
Power Method	PoE or USB 5V
Supported Voltage Range	42.4-57V DC for PoE, 4.75V to 5.25V for USB
Power Consumption	8W max, 5W typical

Software	
Reverse Proxy HTTP Support	Yes
Port Forwarding	Yes

Environmental	
Mounting	Wall, Desktop
Operating Temperature	-5 to 50° C (23 to 122° F)
Operating Humidity	5 to 95% 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 B digital device according 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 under 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 to 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
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 a minimum distance of 20cm between the radiator and your body.

CAN ICES-003(B) / NMB-003(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-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 a minimum distance of 20cm between the radiator & your body. The transmitter module may not be co-located with any other transmitter or antenna.

- **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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Documents / Resources

	ALTA LABS 2A8MT Local Hardware Network Controller Manages [pdf] User Guide 2A8MT Local Hardware Network Controller Manages, 2A8MT, Local Hardware Network Controller Manages, Hardware Network Controller Manages, Network Controller Manages, Controller Manages

References

- User Manual