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› Alta Labs S24-POE Cloud-Managed PoE+ Switch User Manual

Alta Labs S24-POE

Alta Labs S24-POE Cloud-Managed PoE+ Switch User Manual

Model: S24-POE | Brand: Alta Labs

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Alta Labs S24-POE Cloud-Managed PoE+ Switch. The S24-POE is an enterprise-class network switch designed for scalable networks, offering 24 Gigabit Ethernet ports, 16 of which support PoE+, and two 10 Gbps SFP+ uplink ports. It features cloud-managed capabilities and advanced networking features to ensure efficient and secure network deployments.



Figure 1: Front view of the Alta Labs S24-POE Switch, highlighting its 16 PoE+ ports, 240W PoE budget, and 10 Gbps SFP+ ports.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Enterprise-Class 24-Port PoE+ Switch:** Provides 24 Gigabit Ethernet ports, with 16 PoE+ (802.3at/af) ports and a total 240W PoE budget, suitable for powering IP cameras, VoIP phones, and access points.
- **High-Capacity SFP+ Uplinks:** Includes two SFP+ ports supporting fiber or copper links up to 10 Gbps for high-speed backbone connectivity.
- **Cloud-Managed Switching:** Seamless configuration, monitoring, and management via the Alta Labs cloud platform or Bluetooth mobile app.
- **Advanced Networking Features:** Supports VLAN stacking, IGMP snooping, egress/ingress rate limiting, 802.1X authentication, and network loop detection.
- **Rackmountable Design:** Engineered for professional installations with included rack ears and Alta Labs Rackstud DUO toolless mounting system.

2.2 Port Configuration

The S24-POE switch features a versatile port configuration to support various network requirements:

- **16 PoE+ (802.3at) Gigabit Ethernet Ports:** Deliver up to 30W per port, with an aggregate 240W PoE budget.
- **8 Standard Gigabit Ethernet Ports:** Provide standard network connectivity for non-PoE devices.
- **2 SFP+ Ports:** Support 1/2.5/5/10 Gbps fiber or copper connections for high-speed uplinks.

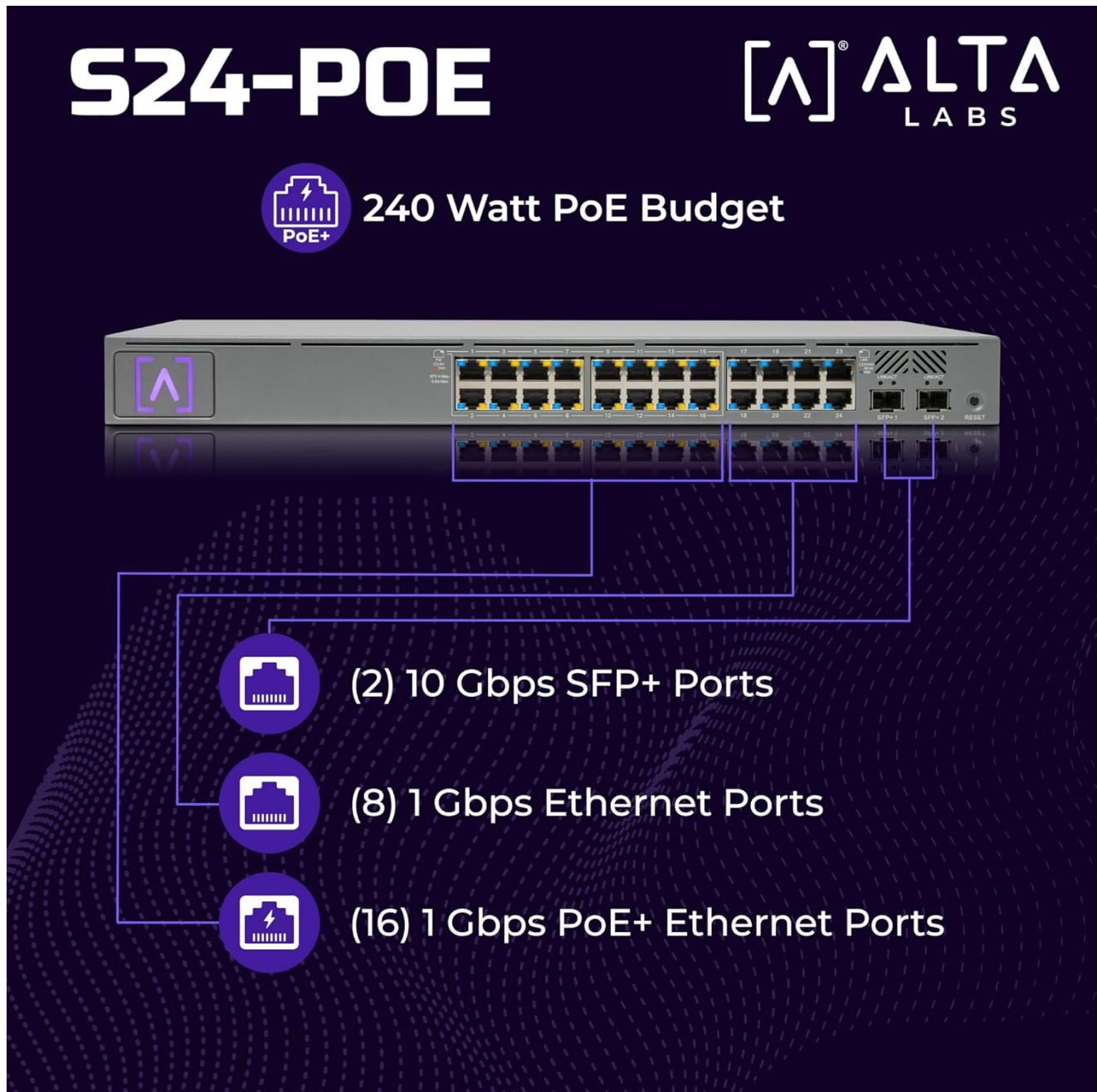


Figure 2: Diagram illustrating the port types and counts on the Alta Labs S24-POE Switch.

3. SETUP

3.1 Initial Connection

1. Connect the power cable to the switch and a power outlet.
2. Connect an Ethernet cable from your router or existing network to any of the Gigabit Ethernet ports on the S24-POE switch.
3. The switch will power on and begin its boot sequence.

3.2 Cloud Management and Mobile App Setup

The Alta Labs S24-POE switch is designed for seamless cloud management. You can configure and monitor your network using the Alta Labs cloud platform or the dedicated mobile application.

1. Download the Alta Labs mobile app from your device's app store (available on iOS and Android).
2. Open the app and follow the on-screen instructions to create an Alta Labs account or log in if you already have one.
3. Use the app's Bluetooth functionality to discover and add your S24-POE switch to your network. This allows for quick and intuitive initial setup.
4. Alternatively, access the Alta Labs cloud management portal via a web browser to manage your devices.

Network Management

All Alta Labs Switches can be controlled via the Alta Labs Cloud Control software (free to all users), or can be locally controlled when paired with the Alta Labs Control (sold separately).

[A] CONTROL™
Local Management

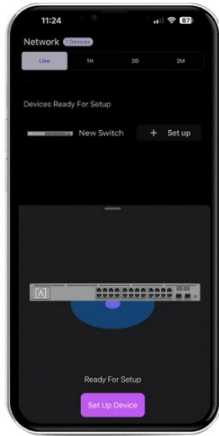
+

or

Cloud Management

Alta Labs provides industry leading network management tools that are perfect for enterprise networks and residential applications.

Figure 3: Overview of Alta Labs network management options, including local and cloud-based control.



Intuitive Bluetooth Setup

The Alta Labs switches include Bluetooth functionality allowing for seamless setup using the Alta Labs mobile app.



Egress and Ingress Rate Limiting

The switches offer egress and ingress rate limiting. This allows inbound and outbound traffic to be limited to a portion of the available bandwidth per connection.

For example, a hotel may want to provide guests with free 5 Mbps internet download (egress) connections but require guests pay an extra fee for 100+ Mbps speeds.

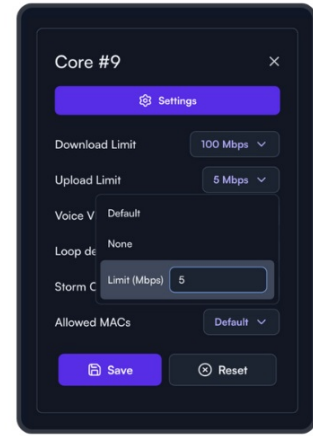


Figure 4: Screenshot showing the intuitive Bluetooth setup process and egress/ingress rate limiting configuration within the Alta Labs interface.

4. OPERATING INSTRUCTIONS

4.1 Cloud and Mobile App Management

The Alta Labs cloud platform and mobile app provide real-time visibility into traffic, device status, PoE usage, and VLAN segmentation. You can manage your network from anywhere with secure remote access.

- **Dashboard:** View network activity, top active network devices, and applications.
- **Device Status:** Monitor the status of all connected devices, including PoE consumption.
- **Configuration Changes:** Apply configuration changes on-the-fly without requiring a network reboot.

Mobile & Web App

Scalable Multi-Site Management | Real-Time Stats | On-The-Fly Changes and Scanning

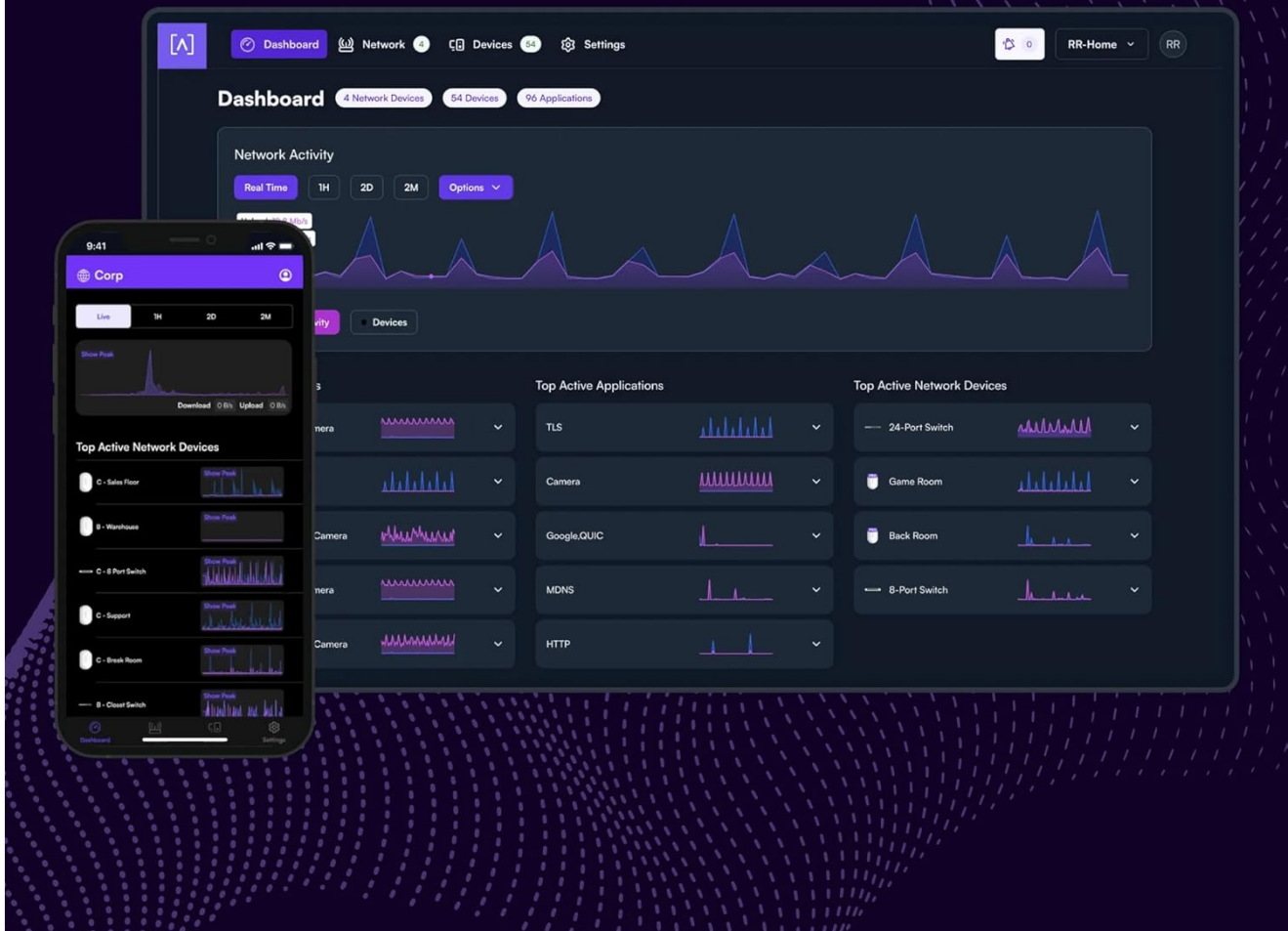


Figure 5: The Alta Labs mobile and web application dashboard, displaying real-time network statistics and device information.

Mobile App

Monitor and manage your networks from the convenience of your mobile device using the Alta Networks app. Sign up for an Alta Labs account using just your name, email, and password or sign in using your Google or Apple account.

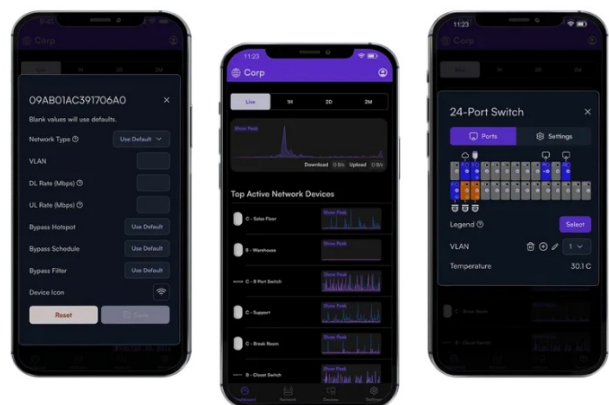


Figure 6: The Alta Labs mobile app interface, allowing users to monitor and manage their networks conveniently

4.2 Advanced Network Features

- **VLAN Stacking (Q-in-Q):** Isolate broadcast domains and manage network traffic efficiently.
- **IGMP Snooping:** Optimize multicast streams for applications like IPTV.
- **Egress/Ingress Rate Limiting:** Control inbound and outbound bandwidth per connection, useful for guest networks or specific device requirements.
- **802.1X Authentication:** Enhance network security by authenticating devices connecting to the switch.
- **Network Loop Detection:** Prevent network outages caused by accidental network loops.

The image displays a mobile application interface titled "Control Your Network". It features two main panels. The left panel, titled "WiFi Network Name", shows a text input field with "New Wifi Test". Below it, the "WiFi Security" section has three tabs: "Password", "Enterprise", and "Open". The "Password" tab is active, showing a list of passwords with categories like "Standard", "Large", "IOT", "Guest", and "Internet". Each password is represented by a category dropdown and a masked password field. An "Add Password" button is at the bottom. The right panel, titled "AltaPass", explains that it allows creating multiple passwords for the same WiFi network with different permissions and internet access. Below this, a "Settings" panel is shown with tabs for "WiFi", "System", "Users", and "Filter". The "Filter" tab is active, showing "Block Applications" with a list of blocked apps: Facebook, Twitch, Twitter, and Youtube. Below this, the "Block Domains" section lists "tiktok.com" and "facebook.com". A "Save" button is at the bottom of the settings panel. The background of the interface is dark purple with a pattern of white dots.

Control Your Network

AltaPass

AltaPass Allows you to create multiple passwords to the same WiFi Network, with each password having different permissions & Internet Access

Advanced DPI Filing

Limit Access to certain websites to control what users on your network can access

Settings

WiFi System Users Filter

Block Applications

Block applications:

- Facebook
- Twitch
- Twitter
- Youtube

Individual applications are red, application groups are blue.

Block Domains

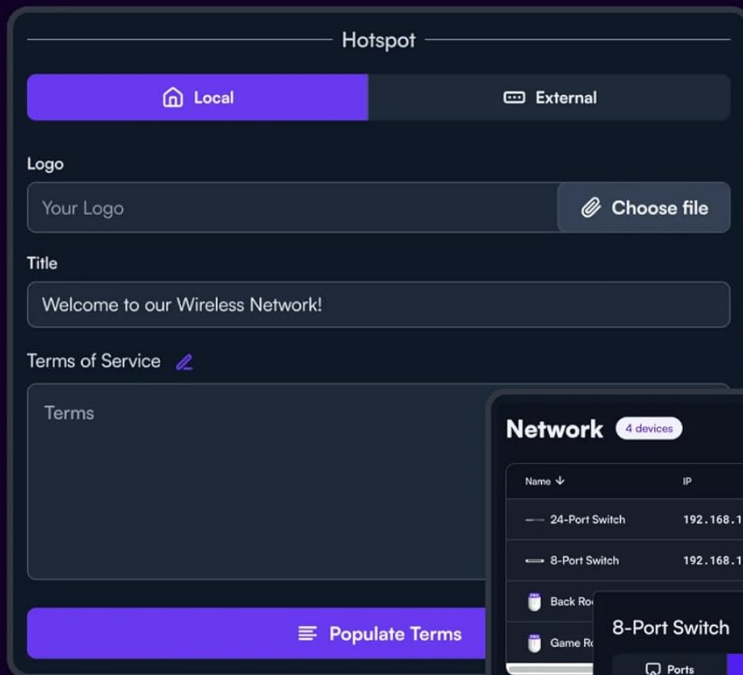
Block domains, one per line

- tiktok.com
- facebook.com

Save

Figure 7: The 'Control Your Network' interface, demonstrating AltaPass for multiple WiFi passwords and advanced DPI filtering options.

Control Your Network



Hotspot Functionality

Built-in functionality to create your own local hotspot with a logo, title page, terms of service, and a final landing page.

On-The-Fly Changes & Scanning

Configuration changes do not require a reboot of your network

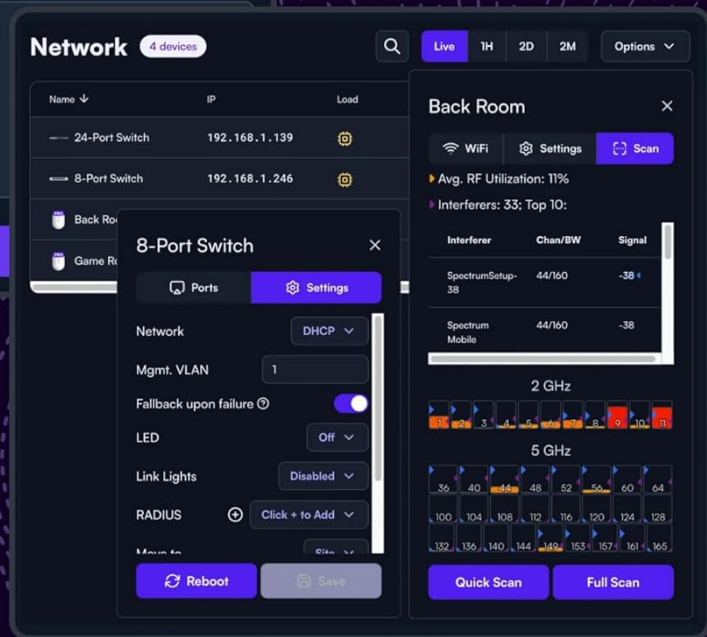


Figure 8: The 'Control Your Network' interface, showcasing Hotspot functionalities and the ability to make on-the-fly configuration changes without rebooting the network.

Scalable Cloud-Based Management

Alta Labs provides an intuitive and easy-to-use cloud-based management interface for Alta Labs access points and switches. Designed for optimum scalability using a high-availability architecture for the ultimate in convenience and worldwide accessibility.

Built on a worldwide content delivery network to optimize response and latency, our global cloud infrastructure ensures geographically optimized connectivity through our redundant network.

Deploy and manage multiple sites quickly and easily. Add, delete, or rename sites instantly. Toggle between sites from a site selection drop-down. Each site contains its own data set.

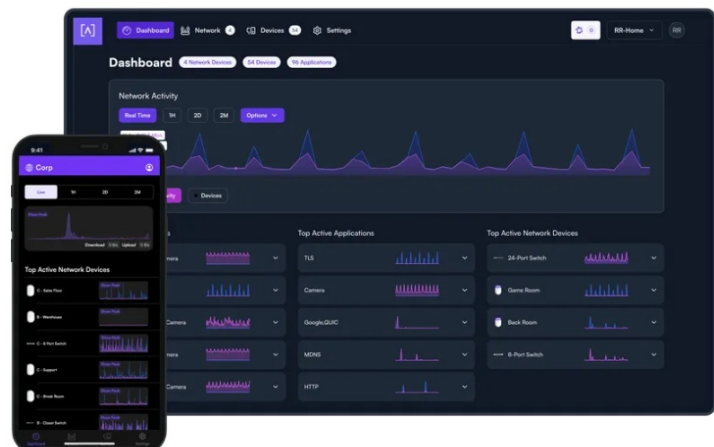


Figure 9: The scalable cloud-based management interface, designed for optimum scalability and worldwide

Intuitive VLAN and device configuration using the Alta Cloud Management platform



Figure 10: The Alta Labs PoE Network Switch with intuitive VLAN and device configuration using the Alta Cloud Management platform.

4.3 Power Over Ethernet (PoE) Usage

The S24-POE provides 16 PoE+ ports with a 240W aggregate budget. This allows for powering a wide range of PoE devices, reducing the need for separate power supplies.



Ensure Adequate Power for Your Network










Powered Devices	PoE up to 15W per port	PoE+ up to 30W per port	PoE++ up to 60W per port
WIFI ACCESS POINT 	✓	✓	✓
Basic Cameras 	✓	✓	✓
VOIP PHONE 	✓	✓	✓
WIFI 6 ACCESS POINT 		✓	✓
HD CAMERAS 		✓	✓
VIDEO PHONE 		✓	✓
PTZ 			✓
POINT-OF-SALE SYSTEM 			✓
POE+ SMART LIGHTING 		✓	✓

Figure 11: A table illustrating the power capabilities of PoE, PoE+, and PoE++ and compatible devices.

Your browser does not support the video tag.

Video 1: An official Alta Labs video showcasing the features of Alta Labs switches, including PoE capabilities and management options.

5. MOUNTING

The S24-POE switch is designed for flexible installation, supporting both rack-mount and wall-mount configurations. It comes with included rack ears and Alta Labs Rackstud DUO for toolless mounting.

Mounting Versatility

Alta Labs switches include rack ears that can be positioned for use in a rack or for mounting on a wall.



Rack Studs are included with each switch



Figure 12: Image demonstrating the mounting versatility of Alta Labs switches, including rack ears and Rackstud DUO for easy installation.

Your browser does not support the video tag.

Video 2: An official Alta Labs video demonstrating how Alta Labs products integrate into a home network, including physical installation aspects.

6. SPECIFICATIONS

Feature	Specification
Brand	Alta Labs
Model Number	S24-POE
Number of Ports	26 (24x Gigabit Ethernet, 2x SFP+)
PoE+ Ports	16

PoE Budget	240 Watts
SFP+ Port Speed	Up to 10 Gbps
Data Transfer Rate	1000 Megabytes Per Second (Gigabit Ethernet)
Switch Type	Power over Ethernet
Case Material	Powder coated steel
Item Weight	3.6 Kilograms
Voltage	240 Volts
Upper Temperature Rating	50 Degrees Celsius

7. MAINTENANCE

To ensure optimal performance and longevity of your Alta Labs S24-POE switch, regular maintenance is recommended:

- **Firmware Updates:** Regularly check for and apply firmware updates through the Alta Labs cloud platform or mobile app. Updates often include performance improvements, new features, and security patches.
- **Cleaning:** Keep the switch and its ventilation openings free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Environmental Conditions:** Ensure the switch operates within the specified temperature and humidity ranges to prevent overheating and component damage.
- **Cable Management:** Maintain organized cable connections to prevent accidental disconnections and improve airflow around the device.

8. TROUBLESHOOTING

If you encounter issues with your S24-POE switch, consider the following troubleshooting steps:

- **No Power:** Verify that the power cable is securely connected to both the switch and a working power outlet. Check the power indicator LED on the switch.
- **No Network Connectivity:** Ensure all Ethernet cables are properly connected to the correct ports. Check the link/activity LEDs on the ports to confirm connection status. Verify your router or upstream network device is functioning correctly.
- **PoE Device Not Powering On:** Confirm that the connected device is PoE compatible and within the PoE+ (802.3at/af) standard. Check the PoE budget allocation in the Alta Labs management interface. Try connecting the device to a different PoE port.
- **Slow Performance:** Check for network loops using the management interface. Monitor network traffic and device utilization. Ensure firmware is up to date.
- **Accessing Management Interface:** Ensure your device is connected to the same network as the switch. Verify the switch has an IP address and that your firewall is not blocking access.
- **Factory Reset:** If issues persist, you may perform a factory reset. Locate the reset button on the switch (often recessed) and press and hold it for approximately 10 seconds until the LEDs indicate a reset. **Warning:** A factory reset will erase all custom configurations.

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The Alta Labs S24-POE switch comes with a **2-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official Alta Labs website.

9.2 Technical Support

For technical assistance, product inquiries, or to report issues, please contact Alta Labs support through the following channels:

- **Online Support:** Visit the official Alta Labs website for FAQs, knowledge base articles, and support forums.
- **Contact Form:** Submit a support request through the contact form available on the Alta Labs website.

Please have your product model number (S24-POE) and serial number ready when contacting support.