

AdaLov WA635X

AdaLov WiFi 6 Outdoor Access Point User Manual

Model: WA635X

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your AdaLov WiFi 6 Outdoor Access Point (Model WA635X). This device is designed to deliver high-speed, reliable wireless connectivity in outdoor environments, supporting a wide range of applications from home network expansion to public area coverage.

2. SAFETY INFORMATION

Please read and understand all safety precautions before installing and operating the device. Failure to follow these instructions may result in injury, damage to the device, or property damage.

- Ensure the device is installed in a location that complies with local electrical codes and regulations.
- Use only the provided power adapter or a compatible 802.3at PoE source.
- Do not open the device enclosure. Refer all servicing to qualified personnel.
- The device is IP67 rated for outdoor use, protecting against dust and water immersion. However, avoid submerging the device or exposing it to high-pressure water jets.
- Operate the device within the specified temperature range of -40°C to 65°C.
- Install the device away from sources of strong electromagnetic interference.
- Ensure proper grounding to protect against lightning strikes, especially given the built-in lightning arrester.

3. PRODUCT OVERVIEW AND COMPONENTS

The AdaLov WA635X is a high-performance WiFi 6 outdoor access point. It features dual-band operation (2.4GHz and 5GHz) and supports advanced wireless technologies for optimal network performance.

3.1 Package Contents

Verify that all items listed below are included in your package:

- 1 x AdaLov Outdoor Access Point (AP)
- 1 x Bracket Mount Kit
- 1 x Screw Kit
- 2 x Waterproof Plugs
- 1 x Instruction Manual
- 1 x 48V PoE Adapter

- 2 x Hoops (for pole mounting)
- 1 x SFP to RJ45 Copper Ethernet Modular
- 1 x Network Cable

What's You Can Get?



AP	A Bracket Mount Kit	Screw Kit
Waterproof Plug (Qty.2)	Instruction Manual	48V POE Adapter
Hoop (Qty.2)	SFP to RJ45 Copper Ethernet Modular	Network Cable

Figure 1: Contents of the AdaLov WA635X package, showing the access point, mounting hardware, and power accessories.

3.2 Device Interfaces and Indicators

Familiarize yourself with the ports and LED indicators on the device:

- **2.5G SFP+ Port:** For high-speed fiber optic connections.
- **1Gbps LAN Port:** Standard Ethernet port for network connection and PoE input.
- **Reset Button:** Used to reset the device to factory defaults.
- **Signal Indicator:** Displays wireless signal strength.
- **SFP+ Indicator:** Indicates activity on the SFP+ port.
- **LAN Indicator:** Indicates activity on the LAN port.
- **PWR (Power) Indicator:** Shows the power status of the device.

Switches and Sockets



Figure 2: Detailed view of the AdaLov WA635X ports and LED indicators.

4. SETUP AND INSTALLATION

The AdaLov WA635X can be installed on a pole or wall. Ensure the chosen location provides optimal signal coverage and is within reach of a power source (PoE).

4.1 Mounting the Device

Use the provided bracket mount kit and screws to secure the access point. For pole mounting, utilize the included hoops. Ensure the device is securely fastened to prevent movement due to wind or other environmental factors.



Figure 3: The AdaLov WA635X access point installed outdoors, demonstrating its mounting capabilities.

4.2 Powering the Device

The WA635X supports Power over Ethernet (PoE) via 802.3at PoE or the included 48V/0.5A Passive PoE adapter. Connect an Ethernet cable from your PoE+ switch or the PoE adapter to the LAN port on the access point. Ensure the power source is stable and provides adequate power.

4.3 Initial Network Access

After powering on, the device will boot up. You can access the web management interface by connecting a computer to the same network as the access point. The default IP address for initial setup is typically 6.6.6.6, or you can find the IP address assigned by your router. Enter this IP address into a web browser to log in and configure the device.

5. OPERATING INSTRUCTIONS

The AdaLov WA635X is designed for seamless and high-performance wireless operation. It supports dual-band frequencies and can handle up to 128 devices simultaneously.

5.1 Wireless Connectivity

The access point operates on both 2.4GHz (up to 574Mbps) and 5GHz (up to 4804Mbps) bands, providing a combined speed of up to 5378Mbps. This dual-band capability ensures compatibility with a wide range of devices and optimizes performance for different usage scenarios.



Figure 4: The access point supports both 2.4GHz and 5GHz bands for versatile connectivity.

The device is capable of supporting up to 128 concurrent wireless devices, making it suitable for high-density environments such as public spaces, offices, or large homes.

5.2 Advanced Wireless Technologies

The WA635X incorporates several advanced features to enhance network performance and user experience:

- **Mesh WiFi:** Allows multiple access points to form a unified network, eliminating dead zones and providing seamless coverage.
- **Seamless Roaming:** Enables devices to automatically switch between access points without interruption as users move across the coverage area.

- **Band Steering:** Automatically directs dual-band capable devices to the less congested 5GHz band for better performance.
- **Load Balancing:** Distributes client devices across multiple access points or channels to prevent overload on a single point.
- **Airtime Fairness:** Ensures that slower devices do not monopolize airtime, allowing faster devices to transmit data more efficiently.
- **Beamforming:** Focuses wireless signals towards connected devices, improving signal strength and range.

Mesh Technology Supported

Eliminate dead zones and to provide uninterrupted WiFi throughout your home.



Figure 5: Mesh technology provides extended and uninterrupted WiFi coverage.

5.3 Network Management

The web interface provides comprehensive tools for managing your network:

- **Multiple SSIDs:** Create separate wireless networks for different purposes (e.g., guest network, private network).
- **VLANs:** Segment your network for enhanced security and traffic management.
- **Network Isolation:** Isolate connected devices from each other for security.
- **Data Frame Filtering:** Control network traffic based on specific criteria.

6. MAINTENANCE

To ensure the longevity and optimal performance of your AdaLov WA635X, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check the device and its mounting for any signs of wear, damage, or loose connections.
- **Port Cleaning:** Ensure the LAN and SFP+ ports are free from dust, debris, or moisture. Use a dry, soft cloth for cleaning.
- **Firmware Updates:** Check the manufacturer's official website for available firmware updates. Keeping the firmware updated can improve performance, add new features, and enhance security. Follow the provided instructions carefully during the update process.
- **Environmental Protection:** While the device is IP67 weatherproof, avoid direct exposure to extreme conditions beyond its specified operating range (-40°C to 65°C) for prolonged periods.

7. TROUBLESHOOTING

If you encounter issues with your AdaLov WA635X, refer to the following common troubleshooting steps:

- **No Power/LEDs Off:**
 - Verify the PoE connection is secure and the PoE injector/switch is powered on.
 - Ensure the Ethernet cable is not damaged.
- **No Internet Connection:**
 - Check the connection between the access point and your main router/modem.
 - Confirm your main router/modem has an active internet connection.
 - Log into the access point's web interface and check network settings (e.g., IP address, gateway, DNS).
- **Weak WiFi Signal/Slow Speeds:**
 - Ensure the access point is mounted in an optimal location, free from obstructions.
 - Check for sources of interference (e.g., microwaves, cordless phones).
 - Verify that Band Steering and Beamforming are enabled in the settings.
 - Consider adjusting wireless channel settings to avoid congestion.
- **Cannot Access Web Interface:**
 - Ensure your computer is on the same network segment as the access point.
 - Try accessing using the default IP (6.6.6.6) or the IP assigned by your router.
 - Temporarily disable any firewall or antivirus software on your computer.
- **Device Not Responding (Hard Reset):**
 - If the device becomes unresponsive, use a paperclip or similar tool to press and hold the Reset button for approximately 10 seconds until the LEDs flash, then release. This will restore factory default settings.

If the issue persists after attempting these steps, please contact AdaLov technical support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the AdaLov WA635X:

Feature	Specification
Brand	AdaLov

Feature	Specification
Model	WA635X
Model Name	AdaLov WA635X - Dual band WiFi 6 outdoor Access Point
Wireless Standard	802.11a, 802.11ac, 802.11g, 802.11n, WiFi 6 (802.11ax)
Frequency Band Class	Dual-Band (2.4 GHz, 5.8 GHz)
Data Transfer Rate	Up to 5378 Mbps (574 Mbps on 2.4GHz, 4804 Mbps on 5GHz)
Number of Devices Supported	Up to 128
Ports	1 x 1Gbps LAN, 1 x 2.5G SFP+
Power Supply	802.3at PoE, 48V/0.5A Passive PoE
Operating System	RouterOS
RAM Memory Installed Size	1 GB
Special Features	Access Point Mode, Beamforming, Internet Security, LED Indicator, Weatherproof (IP67), Mesh WiFi, Seamless Roaming, Band Steering, Load Balancing, Airtime Fairness
Product Dimensions	31 x 29.4 x 61.9 cm
Item Weight	5.96 kg
Operating Temperature	-40°C to 65°C

9. WARRANTY AND SUPPORT

Your AdaLov WA635X comes with comprehensive support to ensure your satisfaction.

- **Technical Support:** Lifetime technical support is provided for this product. For assistance, please refer to the contact information provided with your purchase or visit the official AdaLov website.
- **Return Policy:** This product is eligible for a return within 30 days of purchase, offering options for refund or replacement, subject to the retailer's terms and conditions.

10. VIDEO RESOURCES

While this manual provides detailed instructions, visual guides can be helpful. Please note that no specific official product video URLs from the seller were provided in the product data. If available, official product videos from the seller (creator_type: "Seller") would be embedded here to demonstrate setup, features, or troubleshooting steps.

Example of how a video would be embedded if available:

[Video Placeholder: No official seller videos were provided in the product data.]

If an official video were available, it would appear here, demonstrating a feature like installation or configuration.
For example, a video demonstrating the "Plug-and-Play Deployment" could be embedded here.

