AdaLov WA635X

AdaLov WA635X WiFi 6 Outdoor Access Point User Manual

Model: WA635X | Brand: AdaLov

1. INTRODUCTION

The AdaLov WA635X is a high-performance WiFi 6 Outdoor Access Point designed to provide ultra-fast, stable, and long-range wireless connectivity in various environments. With dual-band support (2.4GHz and 5GHz) and advanced features like Mesh WiFi and PoE+ compatibility, it is ideal for extending network coverage in large homes, businesses, farms, yards, RVs, and campsites.

Figure 1.1: The AdaLov WA635X WiFi 6 Outdoor Access Point.

2. KEY FEATURES

- **Ultra-Fast True Wi-Fi 6 Speeds:** Delivers 5378Mbps total speed (4804Mbps on 5GHz + 574Mbps on 2.4GHz) for stable connectivity.

- **High Device Capacity:** Supports up to 128 devices simultaneously, suitable for high-density environments.

- **Easy Deployment:** Plug & Play design with 802.3at PoE+ and 48V/0.5A Passive PoE support.

- **Advanced Wireless Technology:** Includes Mesh WiFi, Seamless Roaming, Band Steering, Load Balancing, Airtime Fairness, and Beamforming for optimized performance.

- **Rugged Weatherproof Design:** IP67-rated, weatherproof, and heat-resistant housing for operation in harsh conditions.

- **High-Speed Wired Connectivity:** Features a 1Gbps LAN port and an ultra-fast 2.5G SFP+ port.

- **Versatile Use:** Suitable for both indoor and outdoor applications, providing stable, long-range coverage.

- **Enhanced Network Management & Security:** Supports multiple SSIDs, VLANs, network isolation, and advanced data filtering.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x AdaLov WA635X Access Point

- 1 x User Manual

- 1 x Bracket Mount set

- 1 x 48V POE Adapter

- 1 x SFP to RJ45 Copper Ethernet Modular

- 1 x Screw Kit

- 2 x Waterproof Plugs

- 2 x Hoops (for pole mounting)

- 1 x Network Cable

Figure 3.1: All items included in the AdaLov WA635X package.

4. SETUP AND INSTALLATION

4.1 Physical Installation

The AdaLov WA635X is designed for versatile indoor and outdoor deployment. It can be mounted on a pole or wall using the provided bracket mount set and hoops/screws.

Figure 4.1: The AdaLov WA635X mounted outdoors, showcasing its design and antenna configuration.

Ensure the mounting location provides optimal signal coverage and is protected from direct physical impact. The device is IP67-rated for weather resistance, making it suitable for harsh outdoor conditions.

Figure 4.2: The WA635X is built to withstand harsh weather conditions, including rain, snow, and wind.

4.2 Powering the Device

The WA635X supports 802.3at PoE+ and 48V/0.5A Passive PoE. You can power the device using a PoE+ switch or the included 48V PoE adapter.
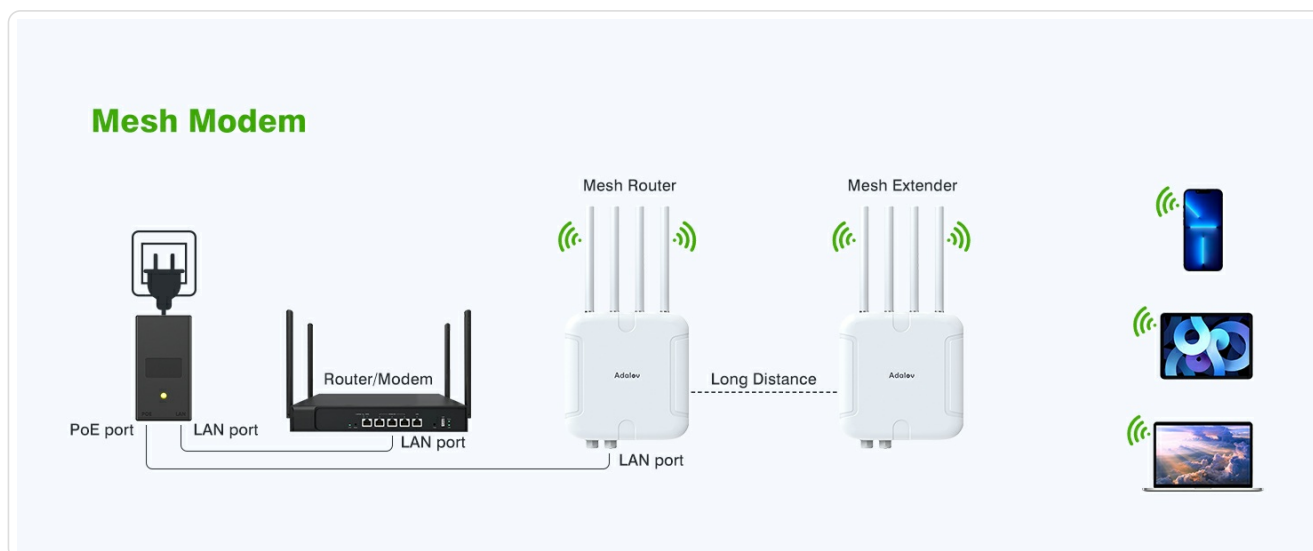

Figure 4.3: Connectivity ports and indicators on the WA635X, including LAN, SFP+, and power.

4.3 Initial Configuration

There are two primary methods for initial setup:

1. **Direct Connection Method:**
   Connect an Ethernet cable directly from your computer to the Access Point's LAN port. Configure your computer's Ethernet adapter to use a static IP address (e.g., 6.6.6.100) with Subnet mask 255.255.255.0. Then, open a web browser and navigate to 6.6.6.6 to access the administration interface. The default login password is "admin".

2. **Router Connection Method:**
   Connect the Access Point to your router via an Ethernet cable. Log into your router's administration interface and find the Access Point in the connected devices list (it may appear as "WiFi6APD9F3" or similar). Note the IP address assigned to it. Enter this IP address into your web browser to access the Access Point's setup page. The default login password is "admin".

It is recommended to change the default wireless network SSID and create your own for security purposes.

5. OPERATING MODES

The AdaLov WA635X supports multiple operating modes to suit various network requirements:

5.1 AP Mode (Access Point)

In AP mode, the device acts as a central hub for wireless clients, extending your existing wired network wirelessly. It connects to your router via an Ethernet cable and broadcasts a Wi-Fi signal.

Figure 5.1: Illustration of AP Mode (bottom right) where the Access Point connects directly to a router/modem.

5.2 Mesh Mode

Mesh mode allows multiple WA635X units to work together to form a single, unified Wi-Fi network, providing seamless roaming and eliminating dead zones over large areas. This is ideal for extensive outdoor coverage.

Figure 5.2: Mesh Technology allows multiple units to create a wide, seamless Wi-Fi network.

5.3 Repeater Mode

In Repeater mode, the WA635X extends the range of an existing wireless network by receiving the signal and re-broadcasting it. This mode is useful for boosting Wi-Fi coverage without running new Ethernet cables.

6. SPECIFICATIONS

Attribute	Value
Product Dimensions	3.35 x 2.36 x 9.65 inches
Item Weight	10.4 ounces
Item Model Number	WA635X
Brand	AdaLov

Model Name	Adalov-WA635XA
Special Feature	Access Point Mode, Internet Security, LED Indicator, Power Over Internet, Weatherproof
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11g, 802.11n, WiFi 6 (802.11ax)
Compatible Devices	Computer, POE switch, Router, Switch/POE Switch, Wireless bridges
Recommended Uses	Indoor/Outdoor
Connectivity Technology	48V POE, Ethernet, Wi-Fi

7. MAINTENANCE

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

- **Regular Cleaning:** Periodically wipe the exterior of the device with a soft, dry cloth to remove dust and debris. For outdoor installations, ensure vents and ports are clear of obstructions.
- **Inspect Cables and Connections:** Regularly check all Ethernet and power cables for any signs of wear, damage, or loose connections. Ensure waterproof plugs are securely in place for outdoor use.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates. Keeping the firmware updated can improve performance, add new features, and enhance security.
- **Environmental Considerations:** While the device is weatherproof, avoid installing it in locations prone to extreme physical stress or prolonged submersion.

8. TROUBLESHOOTING

If you encounter issues with your AdaLov WA635X, try the following troubleshooting steps:

- **No Power/LEDs Off:**

  - Ensure the PoE adapter is properly connected to a power outlet and the Access Point.
  - If using a PoE switch, verify the switch port is active and providing power.
  - Check the power cable for damage.

- **No Internet Connection:**

  - Verify the Ethernet cable connecting the Access Point to your router/modem is secure and functional.
  - Check your main router/modem for internet connectivity.
  - Ensure the Access Point is configured correctly for your network (e.g., IP address, gateway, DNS).

- **Weak Wi-Fi Signal or Slow Speeds:**

  - Relocate the Access Point to a more central location or higher position to reduce obstructions.
  - Check for sources of interference (e.g., microwaves, cordless phones, neighboring Wi-Fi networks).
  - Ensure your client devices support Wi-Fi 6 for optimal performance.
  - Verify that Band Steering and Beamforming are enabled in the Access Point settings.

- **Cannot Access Web Management Interface:**

    - Confirm your computer's IP settings are compatible with the Access Point's default IP (6.6.6.6) or the IP assigned by your router.
    - Try a different web browser.
    - Clear your browser's cache and cookies.

- **Factory Reset:**
  If issues persist, you may need to perform a factory reset. Locate the reset button (often a small pinhole) on the device. With the device powered on, press and hold the reset button for approximately 5-10 seconds until the LEDs flash, then release. This will restore the device to its default factory settings.

9. OFFICIAL PRODUCT VIDEO

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Video 9.1: An official product video demonstrating the AdaLov WiFi 6 Access Point's ability to extend Wi-Fi up to 500 meters, showcasing its outdoor capabilities and seamless network creation.

10. WARRANTY AND SUPPORT

The AdaLov WA635X comes with lifetime technical support. For any technical assistance, setup queries, or troubleshooting not covered in this manual, please contact our 24/7 professional after-sales team. Refer to the product packaging or the official AdaLov website for contact information.

Related Documents - WA635X

	[Adalov CPE380 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE380 Wireless Bridge, detailing product specifications, installation guides, pairing procedures, application examples, and technical support information.
	[Adalov CPE660 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE660 Wireless Bridge, detailing installation, pairing, application diagrams, specifications, and support information for extending network connectivity.