

## Extreme Networks AP4000-WW

# Extreme Networks AP4000-WW Tri-Radio Indoor Wi-Fi 6E Access Point

## USER MANUAL

### 1. Introduction

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This manual provides essential information for the installation, operation, and maintenance of your Extreme Networks AP4000-WW Tri-Radio Indoor Wi-Fi 6E Access Point. The AP4000-WW is designed to deliver high-performance wireless connectivity in high-density environments, leveraging advanced Tri-Radio technology and robust security features.

The AP4000-WW supports Wi-Fi 6E, operating across 2.4 GHz, 5 GHz, and 6 GHz bands, offering flexible operational modes for optimal network performance and security. It can be managed via ExtremeCloud IQ for cloud-based control or through a local controller for on-premise deployments.



Figure 1: Extreme Networks AP4000-WW Tri-Radio Indoor Wi-Fi 6E Access Point.

## 2. Safety Information

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Please read all safety warnings and instructions before installing or operating this device. Failure to follow these instructions may result in injury or damage to the product.

- **Power Source:** Use only the specified power over Ethernet (PoE+) source (802.3at) for this device.
- **Installation:** Install the device in a dry, indoor environment. Avoid exposure to moisture, extreme temperatures, or direct sunlight.
- **Ventilation:** Ensure proper ventilation around the device to prevent overheating. Do not block any ventilation openings.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Mounting:** Ensure the device is securely mounted to a stable surface to prevent it from falling.

## 3. Setup

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### 3.1 Package Contents

Verify that your package contains the following items:

- Extreme Networks AP4000-WW Access Point
- Mounting Bracket (if included)
- Quick Start Guide

### 3.2 Physical Installation

The AP4000-WW is designed for indoor deployment and can be mounted on ceilings or walls. Its compact form factor allows for discreet installation.

1. **Select a Location:** Choose a central location for optimal Wi-Fi coverage, free from obstructions.
2. **Mounting:** Secure the mounting bracket (if applicable) to the chosen surface using appropriate

hardware. Attach the AP4000-WW to the mounting bracket.

3. **Power Connection:** The AP4000-WW is powered via Power over Ethernet Plus (PoE+), compliant with 802.3at. Connect an Ethernet cable from a PoE+ enabled switch or injector to the Ethernet port on the access point.
4. **Network Connection:** Connect the Ethernet cable from your network infrastructure to the Ethernet port on the AP4000-WW.



Figure 2: The AP4000-WW features a compact design and supports PoE+ for simplified deployment.

### 3.3 Initial Power On

Once connected to a PoE+ source, the access point will power on automatically. Observe the LED indicators for status. Refer to the Quick Start Guide for specific LED behavior during startup.

## 4. Operating the Access Point

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### 4.1 Tri-Radio Technology and Operational Modes

The AP4000-WW features advanced Tri-Radio technology, supporting Wi-Fi 6E across three frequency bands: 2.4 GHz, 5 GHz, and 6 GHz. It offers flexible operational modes:

- **Mode 1:** Configured as three data radios (2.4 GHz, 5 GHz, 6 GHz) for maximum throughput.

- **Mode 2:** Configured as two data radios (2.4 GHz, 5 GHz) plus a dedicated tri-band sensor (2.4 GHz, 5 GHz, 6 GHz) for continuous threat detection and network optimization.

**UP TO 3.9 GBPS**

Stream, connect, and power devices faster with **Tri-Radio WI-Fi 6E**

2.4 GHZ 5 GHZ 6 GHZ

**OPERATIONAL MODES:**

- Mode 1: 2.4 GHz/5 GHz/6 GHz Data Radios
- Mode 2: 2.4 GHz/5GHz Data radios + Tri-frequency band sensor (2.4 GHz/5 GHz/6 GHz)

**FULLY FUNCTIONAL OVER 802.3AT**

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Figure 3: The AP4000-WW supports Tri-Radio Wi-Fi 6E with flexible operational modes for data and sensing.

## 4.2 Management Options

The AP4000-WW offers versatile management capabilities:

- **Cloud Management with ExtremeCloud IQ:** Access and manage your access point from anywhere through the ExtremeCloud IQ platform. This provides centralized control, analytics, and simplified deployment.
- **On-Premises Control:** For local management, the AP4000-WW supports integration with a local controller.

# Universal Hardware Platform



**CLOUD  
MANAGEMENT** 

with ExtremeCloud  
IQ — access from anywhere

**ON-PREMISES  
CONTROL** 

manage locally with built-in  
controller support

Figure 4: The AP4000-WW supports both cloud management via ExtremeCloud IQ and on-premises control.

## 4.3 Advanced Security Features

The AP4000-WW incorporates multiple security protocols to protect your network:

- **WPA3:** Provides stronger encryption for enhanced wireless access security.
- **Private Pre-Shared Key (PPSK):** Allows for unique passwords for each user or device, improving network segmentation and security.
- **L2-L7 Firewall:** Offers deep traffic inspection for comprehensive network protection.
- **Tri-frequency Sensor:** Provides 24/7 threat detection and mitigation capabilities.

# Deploy Anywhere, Hassle-Free



- **Compact & versatile** design fits tight spaces
- **Mount it** on walls, ceilings, or more
- **No extra gear needed** — runs on standard PoE (802.3at)



Figure 5: Key security features of the AP4000-WW, including WPA3, L2-L7 Firewall, and PPSK.

## 4.4 Smart Connectivity and Engagement

The AP4000-WW includes built-in Bluetooth Low Energy (BLE) and a USB port, enabling enhanced IoT connectivity and guest engagement features.

# Deploy Anywhere, Hassle-Free



Designed for high density environments  
without compromising security



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Figure 6: The AP4000-WW integrates BLE and a USB port for smart connectivity and IoT applications.

## 4.5 Product Overview Video

For a visual overview of the AP4000-WW Tri-Radio Indoor Wi-Fi 6E Access Point, please watch the following video:

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Video 1: An overview of the AP4000-WW Tri-Radio Indoor Wi-Fi 6E Access Point, highlighting its features and capabilities.

## 5. Maintenance

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### 5.1 Firmware Updates

Regularly check for and apply firmware updates to ensure optimal performance, security, and access to the latest features. Firmware updates are typically managed through ExtremeCloud IQ or your local controller interface.

### 5.2 Cleaning Instructions

To clean the device, use a soft, dry cloth. Do not use liquid or aerosol cleaners, as they may damage the device. Ensure the device is powered off before cleaning.

### 5.3 Environmental Considerations

Maintain the operating environment within the specified temperature and humidity ranges to ensure the longevity and reliable operation of the access point.

## 6. Troubleshooting

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This section addresses common issues you might encounter with your AP4000-WW access point.

- **No Power:** Ensure the Ethernet cable is securely connected to a PoE+ (802.3at) compliant power source. Check the power source for functionality.
- **No Network Connection:** Verify the Ethernet cable connection to your network. Check network switch status and configuration.
- **Slow Wi-Fi Performance:** Check for potential interference from other devices. Ensure the access point is optimally placed. Verify channel selection and power settings in your management interface.
- **Cannot Access Management Interface:** Confirm network connectivity to the access point. Verify IP address settings and firewall rules.

For more detailed troubleshooting or issues not covered here, please refer to the Extreme Networks support documentation or contact technical support.

## 7. Specifications

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The following table details the technical specifications of the Extreme Networks AP4000-WW Access Point.

Feature	Specification
Product Dimensions	19.69 x 19.69 x 11.02 inches
Item Weight	13.7 ounces
Item Model Number	AP4000-WW
Wireless Communication Standard	802.11ax (Wi-Fi 6E)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Data Transfer Rate (2.4 GHz)	Up to 287 Mbps
Data Transfer Rate (5 GHz)	Up to 1.2 Gbps
Data Transfer Rate (6 GHz)	Up to 2.4 Gbps
Total Max Throughput	Up to 3.9 Gbps
Color	White
Manufacturer	Extreme Networks

# AP4000 Wi-Fi 6E



## Wi-Fi 6E Enhanced Capacity

Enhanced wireless experiences, faster speeds, and less interference.

BAND	No. of 20 Mhz Channels	Max Channels Size	Max throughput
6 GHz	59	160 MHz	2.4 Gbps
5 GHz	25	80 MHz	1.2 Gbps
2.4 GHz	3	20 MHz	287 Gbps
Total	87		3.9 Gbps

Figure 7: Detailed Wi-Fi 6E capacity and channel information for the AP4000-WW.

## 8. Warranty and Support

### 8.1 Product Warranty

The Extreme Networks AP4000-WW Access Point comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Extreme Networks website for detailed warranty terms and conditions.

### 8.2 Technical Support

For technical assistance, product inquiries, or to report issues, please contact Extreme Networks customer support. Support resources, including documentation, FAQs, and contact information, are available on the [Extreme Networks Support website](#).