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› Extreme Networks AP305C-1-FCC ExtremeCloud IQ Indoor WiFi 6 AP User Manual

Extreme Networks AP305C-1-FCC

Extreme Networks AP305C-1-FCC User Manual

Indoor WiFi 6 Access Point

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Extreme Networks AP305C-1-FCC ExtremeCloud IQ Indoor WiFi 6 Access Point. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. PRODUCT OVERVIEW

The Extreme Networks AP305C-1-FCC is an advanced, high-performance WiFi 6 access point designed for modern enterprise environments. It offers robust and reliable wireless connectivity for high-density deployments.



Figure 2.1: Top view of the AP305C-1-FCC Access Point, showing its square, white casing and the Extreme Networks logo.



Figure 2.2: Side view of the AP305C-1-FCC Access Point, highlighting the USB port and other connectivity interfaces.



Figure 2.3: Overhead view of the AP305C-1-FCC, showcasing its sleek, minimalist design suitable for indoor environments.



Figure 2.4: The AP305C-1-FCC Access Point shown mounted on a pole, demonstrating its versatile installation

3. KEY FEATURES

- **High Performance and Speed:** Supports a maximum data rate of 1.774 Gbps with dual-radio capabilities, ensuring fast and reliable connectivity for high-density environments.
- **Advanced Cloud Management:** Managed via ExtremeCloud IQ, this access point offers advanced features such as policy-based automation, enhanced traffic management, and comprehensive security.
- **Seamless IoT Integration:** Integrated BLE and Zigbee radios allow for seamless IoT device integration and enhanced location-based services.
- **Enhanced Security:** Features like WPA3, TPM chip, and Protected Management Frames provide robust protection against unauthorized access and ensure data integrity and privacy.
- **Cost-Effective and Easy Deployment:** With support for Power over Ethernet (PoE), the AP305C-1-FCC simplifies installation and reduces the need for additional power outlets, making it a cost-effective solution for network expansion.

4. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact your vendor immediately.

- Extreme Networks AP305C-1-FCC Access Point
- Mounting Bracket (if included with specific SKU)
- Quick Start Guide
- Regulatory Compliance Information

5. SETUP AND INSTALLATION

5.1 Safety Precautions

- Ensure the power source meets the device's requirements.
- Do not expose the device to water or excessive humidity.
- Install the device in a well-ventilated area to prevent overheating.
- Only use accessories specified by the manufacturer.

5.2 Mounting the Access Point

The AP305C-1-FCC can be mounted on a wall or ceiling. Use the provided mounting bracket and hardware. Ensure the mounting surface is sturdy enough to support the device.

1. Secure the mounting bracket to the desired location using appropriate screws.
2. Align the access point with the mounting bracket.
3. Slide the access point onto the bracket until it clicks into place, ensuring it is securely fastened.

5.3 Connecting the Access Point

1. Connect an Ethernet cable from your network switch (preferably PoE-enabled) to the 1GbE port on the AP305C-1-FCC.
2. If not using PoE, connect a compatible power adapter (sold separately) to the power input port.
3. Observe the LED indicators for power and network activity. Refer to Section 6.2 for LED status descriptions.

6. OPERATION

6.1 Initial Configuration

The AP305C-1-FCC is primarily managed through ExtremeCloud IQ. For initial setup and configuration, refer to the ExtremeCloud IQ documentation and your network administrator.

- Ensure the AP is connected to the network and powered on.
- Access your ExtremeCloud IQ account.
- Follow the on-screen instructions to discover and onboard the new access point.
- Configure wireless networks (SSIDs), security settings, and other network policies as required.

6.2 LED Indicators

The AP305C-1-FCC features LED indicators to provide status information:

LED Color/State	Status	Description
Solid Green	Operational	Device is powered on and operating normally.
Flashing Green	Booting/Connecting	Device is starting up or attempting to connect to ExtremeCloud IQ.
Solid Amber	Warning/Error	Indicates a minor issue or a non-critical error. Check system logs.
Flashing Amber	Firmware Update	Device is undergoing a firmware update. Do not power off.
Off	No Power/Fault	Device is not receiving power or has a critical fault.

7. MAINTENANCE

7.1 Cleaning

To maintain optimal performance and appearance, regularly clean the exterior of the access point.

- Use a soft, dry cloth to wipe down the casing.
- Do not use liquid cleaners, aerosols, or abrasive cleaning agents.
- Ensure the device is powered off before cleaning.

7.2 Firmware Updates

Firmware updates are typically managed automatically through ExtremeCloud IQ. Ensure your device is connected to the internet to receive the latest updates, which provide performance improvements and security enhancements.

- Check the ExtremeCloud IQ dashboard for pending updates.
- Schedule updates during off-peak hours to minimize service disruption.
- Do not power off the device during a firmware update.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with the AP305C-1-FCC.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device not powering on (LEDs off)	No power supply or faulty cable.	Check power connection and ensure PoE is active on the Ethernet port, or connect a power adapter.
Cannot connect to Wi-Fi network	Incorrect Wi-Fi password, SSID not broadcasting, or AP not configured.	Verify Wi-Fi password. Check ExtremeCloud IQ for SSID broadcast settings and AP configuration. Ensure AP is online.
Slow Wi-Fi speeds	Network congestion, interference, or suboptimal AP placement.	Reduce number of connected devices, check for sources of interference, or consider relocating the AP for better coverage.
AP not appearing in ExtremeCloud IQ	Network connectivity issue, firewall blocking, or incorrect onboarding.	Verify network connectivity to the AP. Check firewall rules. Ensure the AP is correctly registered in ExtremeCloud IQ.

For further assistance, refer to the Extreme Networks support website or contact technical support.

9. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	AP305C-1-FCC
Brand	Extreme Networks
Product Dimensions	6.7 x 2.1 x 6.5 inches
Frequency Band Class	Dual-Band (2.4 GHz and 5 GHz)
Wireless Communication Standard	802.11ax (WiFi 6)
Max Data Rate	1.774 Gbps
Connectivity Technology	Wi-Fi, 1x1GbE Port
Special Features	WPS, Integrated Light/Power sensors, AI/ML Green Mode, Integrated BLE and Zigbee radios
Operating Temperature	0°C to 40°C (32°F to 104°F)
Power Supply	Power over Ethernet (PoE) or optional power adapter

10. WARRANTY AND SUPPORT

10.1 Warranty Information

Extreme Networks products typically come with a limited hardware warranty. For specific warranty terms and conditions applicable to your AP305C-1-FCC, please refer to the warranty card included with your product or visit the official Extreme Networks website. Keep your proof of purchase for warranty claims.

10.2 Technical Support

For technical assistance, product documentation, and software downloads, please visit the Extreme Networks support portal. You can also contact their customer support team for direct assistance.

- **Online Support:** www.extremenetworks.com/support/
- **Contact Information:** Refer to the Extreme Networks website for regional contact numbers.