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FORTINET FAP-441K-A

Fortinet FortiAP 441K Wi-Fi 7 Indoor Wireless Access Point User Manual

Model: FAP-441K-A | Brand: FORTINET

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Fortinet FortiAP 441K Wi-Fi 7 Indoor Wireless Access Point. Please read this manual thoroughly before using the device to ensure optimal performance and safety.



Figure 1: Fortinet FortiAP 441K Wi-Fi 7 Indoor Wireless Access Point, top view.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the device or injury to yourself:

- Install the device in a dry, well-ventilated area, away from direct sunlight and heat sources.
- Ensure proper grounding to prevent electrical shock.
- Do not open the device casing. Refer all servicing to qualified personnel.
- Use only the power supply methods specified for this device (PoE++).
- Keep the device away from water and moisture.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Fortinet FortiAP 441K Wireless Access Point
- Mounting Bracket (for ceiling or wall mounting)
- Installation Guide
- Band (referring to the device itself, as per product data)

4. SETUP

4.1 Mounting

The FortiAP 441K is designed for indoor ceiling or wall mounting. Use the provided mounting bracket and hardware to secure the device in a central location for optimal Wi-Fi coverage.



Figure 2: Fortinet FortiAP 441K, suitable for discreet ceiling or wall mounting.

4.2 Powering On

The FortiAP 441K supports Power over Ethernet (PoE++). Connect an Ethernet cable from a PoE++ compliant switch or injector to the device's Ethernet port. The device will power on automatically.

4.3 Network Connection

Connect the FortiAP 441K to your network infrastructure using one of its 10 Gigabit Ethernet ports. These ports provide high-speed connectivity for optimal performance.



Figure 3: Rear view of FortiAP 441K, highlighting the Ethernet ports for network connection and power.

5. OPERATING INSTRUCTIONS

Once powered on and connected to the network, the FortiAP 441K will begin broadcasting Wi-Fi signals across its tri-band frequencies (2.4 GHz, 5 GHz, and 6 GHz). Clients can connect to the appropriate SSID (Service Set Identifier) as configured in your Fortinet network management system. The access point is designed to provide 24/7 scanning across all bands while simultaneously offering client access.

6. KEY FEATURES

The FortiAP 441K offers advanced features for high-performance wireless networking:

- **Wi-Fi 7 Standard:** Supports the latest Wi-Fi 7 (802.11ax) standard for enhanced speed and efficiency.
- **Tri-Band Operation:** Utilizes 2.4 GHz, 5 GHz, and 6 GHz bands for flexible and high-capacity wireless connectivity.
- **4x4 MU-MIMO:** Features 4x4 Multi-User Multiple-Input, Multiple-Output technology for improved performance with multiple connected devices.
- **Internal Antennas:** Equipped with internal antennas for a sleek design and optimized signal coverage.
- **2x 10G Ethernet Ports:** Provides two 10 Gigabit Ethernet ports for high-speed wired backhaul.
- **OFDMA:** Orthogonal Frequency-Division Multiple Access for efficient channel utilization.
- **Integrated BLE/ZigBee Radio:** Can be used for beaconing and location-based applications.

FortiAP 441K Specifications

Max Data Rate (up to)	1.148 Gbps + 8.648 Gbps + 11.53 Gbps
802.11AX Wi-Fi 7	Yes
4x4 MU-MIMO UL / DL MU-MIMO	Yes
Antennas	10 Internal + 1 Internal BLE
GE RJ45 ports	3
OFDMA	Yes

Figure 4: Overview of FortiAP 441K key specifications and features.

7. MAINTENANCE

To ensure the longevity and optimal performance of your FortiAP 441K, follow these maintenance guidelines:

- Regularly check for firmware updates through your Fortinet management interface to ensure the latest security patches and features.
- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Ensure adequate airflow around the device to prevent overheating.
- Avoid placing heavy objects on the device.

8. TROUBLESHOOTING

If you encounter issues with your FortiAP 441K, refer to the following common troubleshooting steps:

- **No Power:** Verify that the Ethernet cable is securely connected and that the PoE++ switch/injector is functioning correctly.
- **No Wi-Fi Signal:** Check the device status indicators. Ensure the access point is properly configured and broadcasting SSIDs.
- **Slow Performance:** Check network congestion, client device capabilities (Wi-Fi 7 clients will perform best), and ensure the 10G Ethernet ports are utilized for backhaul.
- **Connectivity Issues:** Restart the access point and any connected network devices. Verify network settings in your Fortinet management system.

For more advanced troubleshooting, consult the Fortinet support documentation or contact technical support.

9. SPECIFICATIONS

Attribute	Value
Product Dimensions	10 x 10 x 2 inches
Item Weight	7 pounds
ASIN	B0D9R166L5
Item Model Number	FAP-441K-A
Brand	FORTINET
Model Name	FAP-441K-A 25550886
Special Feature	Remote Access
Frequency Band Class	Tri-Band
Wireless Communication Standard	802.11ax (Wi-Fi 7)
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet
Recommended Uses For Product	Office, Gaming
Connectivity Technology	Wi-Fi 7, Ethernet
Color	Multicolor
Manufacturer	Fortinet
Date First Available	July 19, 2024



Length x Width x Height 9.84 x 9.84 x 2.26 inches Weight: 4.36 lbs

Figure 5: FortiAP 441K dimensions for installation planning.

10. WARRANTY AND SUPPORT

The Fortinet FortiAP 441K is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Fortinet website. For technical support, product registration, and additional resources, please visit the Fortinet support portal.