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FORTINET FAP-223E-A

FortiAP-223E Indoor Wireless Wave 2 AP User Manual

Model: FAP-223E-A

1. Product Overview

The FortiAP-223E is an indoor wireless access point designed for high-performance Wi-Fi connectivity. It supports dual-radio operation with 802.11a/b/g/n and 802.11a/n/ac standards, featuring 2x2 MU-MIMO technology for enhanced throughput and capacity. This device is ideal for environments requiring robust and reliable wireless access.



Figure 1: FortiAP-223E Indoor Wireless Access Point. This image displays the white, circular access point with four external antennas extending from its sides.

2. What's in the Box

Verify that all components are present in the package:

- FortiAP-223E Access Point Unit
- 4 x External Antennas
- Ceiling/Wall Mount Kit
- Quick Start Guide (if applicable, not explicitly mentioned but common)

Note: Power adapter is typically sold separately and not included in the standard package.

3. Setup and Installation

3.1. Physical Installation

1. **Attach Antennas:** Carefully screw the four external antennas onto the corresponding connectors on the FortiAP unit. Ensure they are finger-tight.
2. **Mounting:**

- **Ceiling Mount:** Use the provided ceiling mount kit to secure the AP to a ceiling tile or solid ceiling. Follow the instructions in the mounting kit for proper installation.
- **Wall Mount:** Use the provided wall mount kit to secure the AP to a wall. Ensure the mounting surface is stable and can support the device's weight.

3. **Connect Network Cable:** Connect an Ethernet cable from your network switch or router to the GE RJ45 port on the FortiAP. This port supports Power over Ethernet (PoE) for power delivery.
4. **Power On:** If not using PoE, connect a compatible power adapter (sold separately) to the power input port. The device will power on automatically.

3.2. Initial Configuration

The FortiAP-223E is typically managed by a FortiGate firewall or FortiManager. Refer to your FortiGate or FortiManager documentation for detailed instructions on discovering and authorizing the FortiAP.

- Ensure your FortiGate or FortiManager is running a compatible FortiOS version.
- The FortiAP will attempt to discover a FortiGate on the local network via FortiDiscovery.
- Once discovered, authorize the FortiAP from the FortiGate's Wireless Controller section.
- Configure SSIDs, security settings, and other wireless parameters via the FortiGate's interface.

4. Operating the FortiAP-223E

4.1. LED Indicators

The FortiAP-223E features several LED indicators to provide status information:

- **Power LED:** Indicates power status. Solid green typically means powered on.
- **LAN LED:** Indicates Ethernet port activity. Blinking indicates data transmission.
- **WLAN LEDs (2.4GHz & 5GHz):** Indicate wireless activity for each radio band. Blinking indicates data transmission.
- **Status LED:** Provides overall device status, often indicating connection to the controller or errors. Refer to the FortiAP documentation for specific LED patterns and their meanings.

4.2. Wireless Connectivity

Once configured via the FortiGate, the FortiAP-223E will broadcast the configured SSIDs. Client devices can then connect to these wireless networks using the specified security credentials.

- Supports 802.11ac Wave 2 for high-speed connections.
- MU-MIMO technology allows the AP to communicate with multiple clients simultaneously, improving overall network efficiency.
- Dual-band operation (2.4 GHz and 5 GHz) provides flexibility for various client devices and environments.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your FortiAP-223E.

- **Firmware Updates:** Regularly check for and apply firmware updates through your FortiGate or FortiManager. Firmware updates often include performance enhancements, security patches, and new features.
- **Physical Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Environmental Conditions:** Ensure the AP operates within its specified temperature and humidity ranges to prevent overheating or damage.
- **Antenna Check:** Periodically ensure all external antennas are securely attached and oriented correctly for optimal signal coverage.

6. Troubleshooting

This section addresses common issues you might encounter with your FortiAP-223E.

Problem	Possible Cause	Solution
AP not powering on.	No power from PoE switch or power adapter.	Verify PoE switch port is active or ensure power adapter is correctly connected and functional. Check power outlet.
AP not discovered by FortiGate.	Network connectivity issue, incorrect FortiGate configuration, or AP is on a different subnet.	Check Ethernet cable connection. Ensure FortiGate is configured to discover APs. Verify network routing if AP is not on the same subnet as the FortiGate.
Clients cannot connect to Wi-Fi.	Incorrect SSID/password, AP not authorized, or radio disabled.	Verify SSID and password. Ensure the AP is authorized and online in the FortiGate. Check if wireless radios are enabled.
Poor wireless performance.	Interference, improper antenna orientation, or outdated firmware.	Check for sources of interference. Adjust antenna orientation. Update AP firmware to the latest version. Consider channel optimization.

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

7. Specifications

Feature	Detail
Model Number	FAP-223E-A
Wireless Type	802.11ac Wave 2 (Dual Radio: 802.11 a/b/g/n and 802.11 a/n/ac)
MIMO Technology	2x2 MU-MIMO
Ethernet Ports	1 x GE RJ45 Port (PoE capable)
Antennas	4 x External Antennas Included
Mounting	Ceiling/Wall Mount kit included
Item Weight	1.85 pounds (approx. 0.84 kg)
Package Dimensions	9.72 x 9.69 x 3.62 inches (approx. 24.69 x 24.61 x 9.19 cm)
Manufacturer	FORTINET

8. Warranty and Support

Fortinet products typically come with a standard hardware warranty. For specific warranty terms and conditions, including duration and coverage, please refer to the official Fortinet warranty policy available on their website or contact your reseller.

Technical Support:

- For technical assistance, product registration, and access to firmware updates, please visit the official Fortinet Support website.
- You will typically need to register your product using its serial number to access full support resources.
- Ensure your support contract is active for access to advanced technical support and firmware updates beyond the initial

period.

For more information, visit the Fortinet Support Portal.

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