

Fortinet FAP-231F

Datasheet



Product Overview

- The Fortinet FortiAP 231F (FAP-231F) is a high-performance indoor wireless access point designed for enterprise environments. It features tri-radio capabilities, supporting both 2.4GHz and 5GHz bands with 802.11ax (Wi-Fi 6) and 802.11 a/b/g/n/ac Wave 2 standards.
- The FAP-231F also supports MU-MIMO and OFDMA technologies, which enhance performance by allowing simultaneous data transmission to multiple devices, improving overall network efficiency. Additionally, the access point's advanced features make it easy to manage and monitor wireless networks.
- With internal antennas, the FAP-231F provides a sleek and compact design, making it easy to deploy without compromising aesthetics. The device is equipped with two GE RJ45 ports and can be powered by an 802.3at PoE injector or an AC adapter, offering flexible installation options.
- The FortiAP 231F is part of the Fortinet Security Fabric, ensuring seamless integration with other Fortinet products for enhanced security and management capabilities. This access point is suitable for various applications, including enterprise wireless networks, hospitality and retail venues, and educational institutions.

Product Highlights

- **Comprehensive Wireless Standard Support:** The FAP-231F supports 802.11 b/g/n/ax, 802.11 a/n/ac/ax, and 802.11 a/b/g/n/ac Wave 2 standards, ensuring compatibility with a wide range of wireless devices.
- **Tri-Radio Capabilities:** Enables high-speed data transmission and broad coverage with three separate radios for enhanced performance.
- **Flexible Power Options:** Can be powered by an 802.3at PoE injector or an AC adapter, offering versatile installation possibilities.
- **Part of Fortinet Security Fabric:** Integrates seamlessly with Fortinet's comprehensive security solutions for robust protection and simplified management.

Detailed Features



FAP-231F

Component	Specification
Power Options	802.3at PoE injector GPI-130 or AC adapter SP-FAP200-PA
Wireless Radios	- 2.4GHz 2x2 MU-MIMO (802.11 b/g/n/ax)
	- 5GHz 2x2 MU-MIMO (802.11 a/n/ac/ax)
	- 5GHz 1x1 (802.11 a/b/g/n/ac Wave 2)
Antenna Configuration	Internal antennas



Versatile Wireless Standards

Supports a wide range of wireless standards including the latest Wi-Fi 6 (802.11ax) and legacy protocols, ensuring compatibility with all client devices.

Advanced Tri-Radio Design

Equipped with three radios for optimal performance: 2.4GHz 2x2 MU-MIMO, 5GHz 2x2 MU-MIMO, and 5GHz 1x1.

Compact and Efficient Design

Internal antennas ensure a compact form factor, making it ideal for environments where space and aesthetics are a concern.

Multiple Powering Options

Flexible powering through 802.3at PoE injector or AC adapter caters to different deployment scenarios.

Seamless Security Integration

As part of the Fortinet Security Fabric, it provides enhanced security features and centralized management for comprehensive network protection.

Enhanced Network Performance

Utilizes MU-MIMO and OFDMA technologies to improve network efficiency and support multiple devices simultaneously.

Technical Specifications

Interfaces and Modules

Feature	Value
Product Code	FAP-231F
Wireless Radios	- 2.4GHz 2x2 MU-MIMO (802.11 b/g/n/ax)
	- 5GHz 2x2 MU-MIMO (802.11 a/n/ac/ax)
	- 5GHz 1x1 (802.11 a/b/g/n/ac Wave 2)
Antenna Configuration	Internal antennas
Power Options	802.3at PoE injector GPI-130 or AC adapter SP-FAP200-PA

System Performance

Feature	Value
Wireless Standard	802.11 b/g/n/ax, 802.11 a/n/ac/ax, 802.11 a/b/g/n/ac Wave 2
MU-MIMO	Yes
OFDMA	Yes
Ethernet Ports	2 x GE RJ45



Interfaces and Modules

Metric	Value
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	10–90% non-condensing

Product Comparison

Model	Difference
FAP-221E	Dual-radio, lacks 802.11ax support
FAP-223E	Dual-radio, lacks 802.11ax support, external antennas
FAP-229B	Outdoor access point, dual-radio, lacks 802.11ax support

Accessories

Category	Accessories
Accessories Included	External PoE Injector: 802.3at PoE injector GPI-130
	AC Adapter: SP-FAP200-PA
	Mounting Bracket: MB-FAP200
Optional Accessories	FortiGate Cloud Management
	FortiAnalyzer Integration
	Additional FortiCare and FortiGuard Licenses



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[2] Router-switch.com. (n.d.). Overview of Fortinet FAP-231F. From <https://www.router-switch.com/fap-231f.html>.