Fortinet FAP-431F

Datasheet

Product Overview

- The Fortinet FortiAP 431F (FAP-431F) is a high-performance indoor wireless access point designed for enterprise environments. It features advanced tri-radio capabilities with support for 802.11ax (Wi-Fi 6) and 802.11a/b/g/n/ac Wave 2 standards, ensuring comprehensive network coverage and high-speed data transmission.

- The FAP-431F supports both 2.4 GHz and 5 GHz frequency bands, offering versatile connectivity options. The device comes with internal antennas, providing a sleek and compact design suitable for various deployment scenarios.

- Powering the FAP-431F is flexible; it can be powered via an 802.3at PoE injector or an AC adapter. This flexibility makes it easy to deploy in different settings without worrying about power constraints. The access point also integrates seamlessly with Fortinet's Security Fabric, providing enhanced security features and centralized management capabilities.

- The FAP-431F is designed for various applications, including enterprise wireless networks, hospitality venues, retail environments, and educational institutions.

Product Highlights

- **Comprehensive Wireless Standards:** Supports 802.11b/g/n/ax and 802.11a/n/ac/ax standards for wide compatibility.

- **Advanced Security Integration:** Part of Fortinet's Security Fabric for robust protection and management.

- **Compact and Flexible Design:** Internal antennas for a sleek look and multiple power options for easy deployment.

- **High-Performance Tri-Radio Design:** Features three radios for enhanced wireless performance and coverage.

- **Enhanced Network Efficiency**: Utilizes MU-MIMO and OFDMA for simultaneous data transmission to multiple devices.

Detailed Features

FAP-431F

Component	Specification
Frequency Bands (GHz)	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Interfaces	1x 100/1000/2500 Base-T RJ45, 1 x 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port
Power Supply	SP-FAP400-PA-XX or GPI-130
Power Consumption (Maximum)	24.5 W

Versatile Wireless Support

The FAP-431F supports a broad range of wireless standards, including the latest Wi-Fi 6 (802.11ax) and legacy protocols, ensuring full compatibility with all client devices.

Advanced Tri-Radio Configuration

Equipped with three radios for optimal performance: 2.4 GHz 2x2 MU-MIMO, 5 GHz 4x4 MU-MIMO, and an additional scanning radio.

Compact Design with Internal Antennas

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

Flexible Powering Options

Can be powered using an 802.3at PoE injector or an AC adapter, accommodating various deployment scenarios.

Seamless Security Fabric Integration

Integrates with Fortinet's Security Fabric, providing comprehensive security features and centralized management.

Enhanced Performance with MU-MIMO and OFDMA

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

Technical Specifications

Interfaces and Modules

Feature	Value
Product Code	FAP-431F
Frequency Bands (GHz)	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Interfaces	1x 100/1000/2500 Base-T RJ45, 1 x 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port
Power Supply	SP-FAP400-PA-XX or GPI-130
Power Consumption (Maximum)	24.5 W

Environmental Specifications

Feature	Value
Operating Temperature	32–113°F (0–45°C)
Storage Temperature	-31–-94°F (-35–70°C)
Humidity	5 - 90% non-condensing

Hardware Specifications

Metric	Value
Hardware Type	Indoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	5 Internal + 1 BLE Internal
Antenna Type and Peak Gain	PIFA: 4 dBi for 2.4 GHz, 5 dBi for 5 GHz
Maximum Data Rate	Radio 1: up to 1147 Mbps, Radio 2: up to 2402 Mbps, Radio 3: scan only
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 6 dBm max TX power
Power over Ethernet (PoE)	802.3at PoE default, 1 port powered by 802.3at or 2 ports powered by 802.3af

Product Comparison

Feature	FAP-431F	FAP-433F
Frequency Bands (GHz)	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Interfaces	1x 100/1000/2500 Base-T RJ45, 1 x 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port	1x 100/1000/2500 Base-T RJ45, 1 x 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port
Power Supply	SP-FAP400-PA-XX or GPI-130	SP-FAP400-PA-XX or GPI-130
Power Consumption (Maximum)	24.5 W	24.5 W

Accessories

Category	Accessories
Accessories Included	External PoE Injector: 802.3at PoE injector GPI-130
	AC Adapter: SP-FAP400-PA-XX
	Mounting Bracket: MB-FAP400
Optional Accessories	FortiGate Cloud Management
	FortiAnalyzer Integration
	Additional FortiCare and FortiGuard Licenses

Support & Warranty

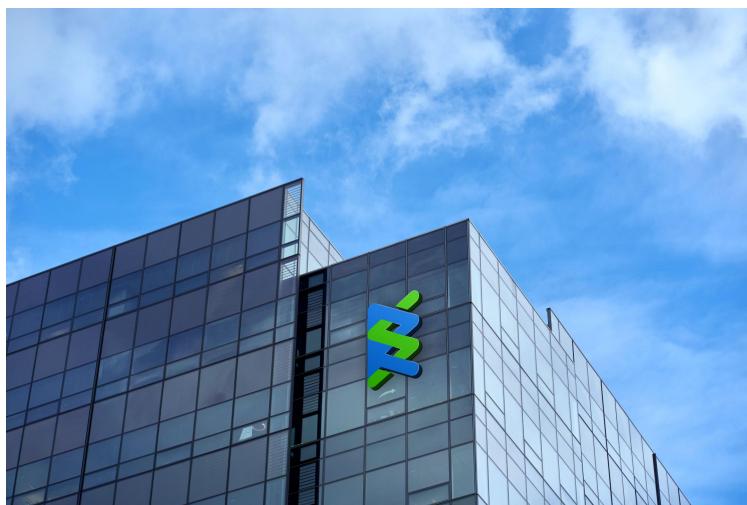|					
24/7 Online Service	3-Year Premium Warranty	Professional Technical Support	100% Low Price Guarantee	100% Quality Assurance	100% Money Back Guarantee

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Sales Inquiries: sales@router-switch.com
Expert Technical Support: ccie-support@router-switch.com
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Phone

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Hong Kong: +852-25925389 / +852-25925411

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Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

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[2] Router-switch.com. (n.d.). Overview of Fortinet   FAP-431F. From https://www.router-switch.com/fap-431f.html.