



# FortiAP™-200 Series

## Integrated Wireless Security and Access Solutions

### Fortified Wireless Space

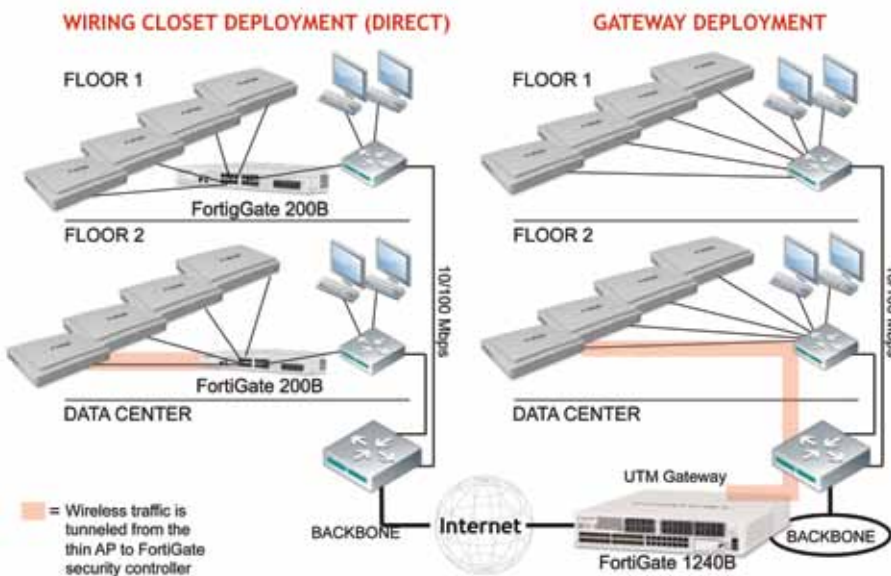
The FortiAP 200 series are Fortinet's affordable, IEEE802.11n standards based thin architecture access point products that provide concurrent security and WiFi client access operation on both the 2.4 Ghz and 5Ghz spectrums. The FortiAP series utilizes industry leading wireless chip technology that takes advantage of 2x2 MIMO technology with dual transmit streams. This MIMO technology allows the FortiAP to reach wireless association rates as high as 300Mbps per radio and also allows the coverage to extend twice as far as legacy 802.11a/b/g. Internal antenna design and sleek white enclosure camouflage the access point for indoor deployment and reduce chances of vandalism.

Designed for use exclusively with Fortinet's FortiGate series, FortiAP's thin AP architecture tunnels all traffic to the FortiGate Controller for added security and ease of management, eliminating the need for a separate WiFi controller. Each FortiAP can support up to 8 SSIDs per radio - 7 for client access and 1 for scanning and these SSIDs show up as Interfaces on the FortiGate. This architecture allows all the FortiGate UTM security policies and IPS features to be applied to the wireless network as a natural extension of the FortiGate. FortiAPs use multiple discovery techniques to find available FortiGate controllers over L2 or L3 networks.

### FortiAP and FortiGate Wireless Controllers Deliver a Powerhouse Security Solution

- Secure Wireless Networks: Rogue Access Point (AP) Detection and Remediation (for PCI compliance), granular endpoint control, audit-ready reports and specific measurable analysis
- Improve Performance: Speedy 802.11n and significantly higher scalability than the competition
- Simplify Your Administration: Use existing FortiGate devices for WLAN Control; Turnkey Audit Reports make compliance easier
- Lower Total Cost of Ownership (TCO): One access point, many uses.

### FortiAP Deployments



DATASHEET



### High Performance Secure Thin Access Points

Ideal for Distributed Retail, Dense Office, K-12 Campus and Branch Office

- Low-profile ID with Omni-directional Internal Antenna Design
- Ideal for PCI compliance, guest and employee access.

### High Performance Connectivity

- Speedy 802.11n
- Dual simultaneous communication on 2.4Ghz/5Ghz a/b/g/n
- 300Mbps wireless association rate
- Self-Tuning Features to Adjust and Optimize RF Settings
- Richest set of enterprise class AP and security capability

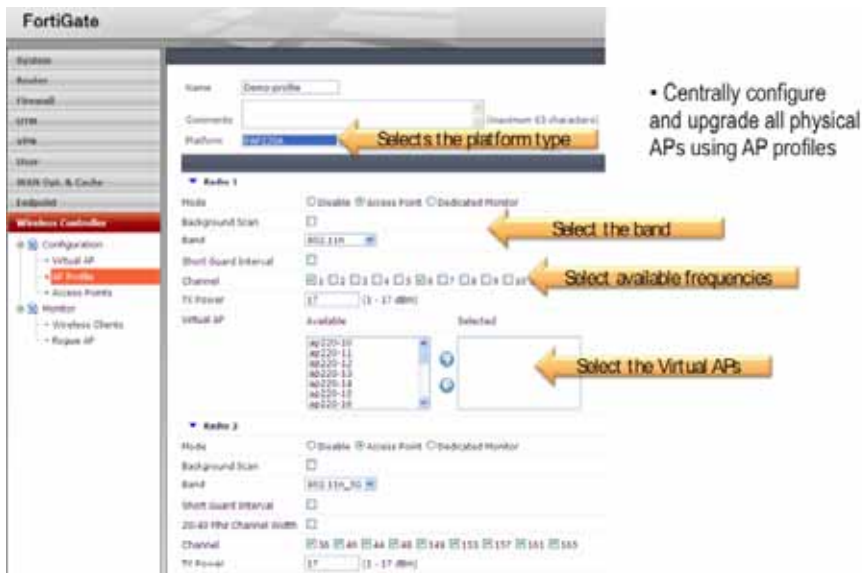
### Trusted Security Features

- WPA/WPA2 with Shared key and Enterprise class 802.1x user authentication
- 2nd dedicated radio for Air Monitoring to protect against Rogue AP

### Convenient Deployment

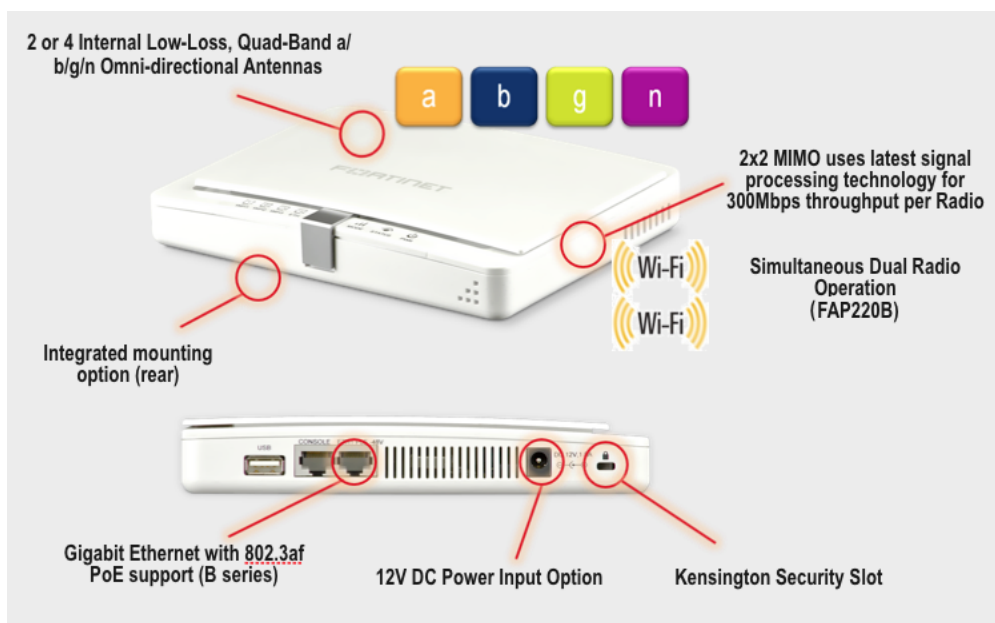
- 802.3af PoE
- Zero-configuration Installation
- Use your existing FortiGate for WLAN control
- Internal Antenna design conceals AP

Feature	Benefit
Threat Detection on Wireless Net	Next-generation firewall, antimalware, antispam, and intrusion prevention capabilities of the FortiGate UTM appliance protect wireless traffic by removing threats and enforcing policies for complete multi-threat security.
High Throughput and Resiliency	High performance, low-cost APs allow ubiquitous coverage with high throughput even in densely populated areas. Extended range allows for more wireless coverage with lower number of APs.
802.11n Support	FortiAP devices incorporates the latest 2x2 Multiple-In/Multiple-Out (MIMO) chip technology that support the fastest performance IEEE 802.11n and longer range. The FortiAP solution provides simultaneous a/b/g/n supported for backward compatibility.
One Access Point, Many Uses	Software reconfiguration allows one radio to be dedicated to wireless air monitoring while the other provides full AP functionality to client. Software license allows simultaneous mesh backhaul and remote AP functionality.

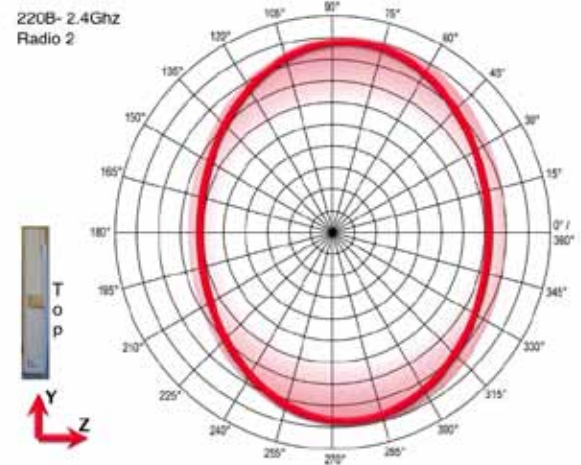
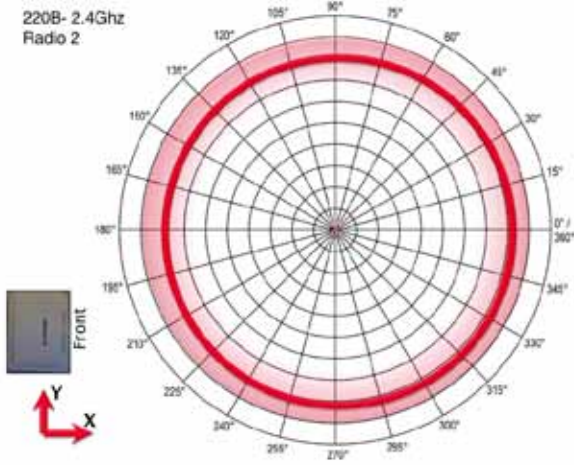
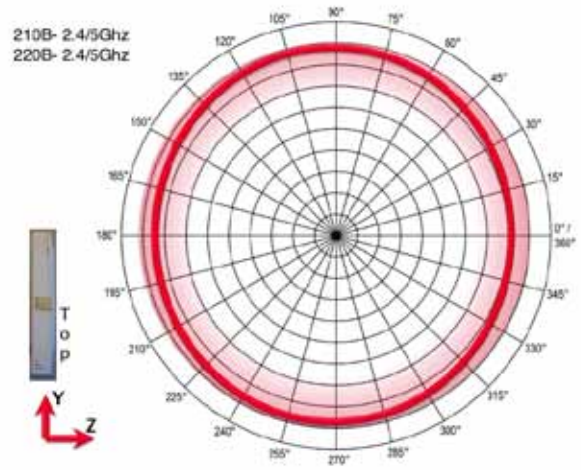
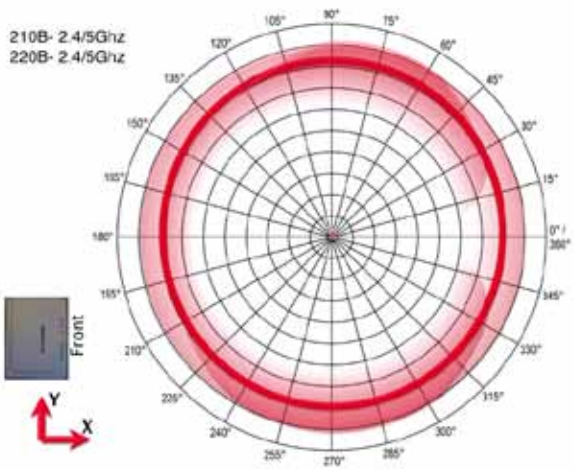


**Figure 1:** FortiOS 4.0 MR2: Profile based central management of FortiAP simplifies your administration.

**Figure 2:** FortiAP-200 Series Product Features



## FortiAP-210B and 220B H and E Plane Antenna Patterns for 2.4 and 5 Ghz



Technical Specifications	FortiAP-210B	FortiAP-220B
Hardware Specifications		
Indoor/Outdoor Deployment	Indoor	Indoor
Number of Radios	1	2
Number of Antennas	2 internal	4 internal
Frequency of Radio 1	2.4 GHz b/g/n or 5 GHz a/n (Selectable)	2.4 GHz b/g/n or 5 GHz a/n (Selectable)
Frequency of Radio 2	-	2.4 GHz b/g/n
Tx/Rx Streams	Dual/300M	Dual/600M
Ethernet Port	1 x 10/100/1000	1 x 10/100/1000
Console Port	1	1
Power over Ethernet (PoE)	802.3af (15.4W)	802.3af (15.4W)
WME Multimedia Extensions	Yes	Yes
Simultaneous SSIDs	8 - 7 for client access, 1 for monitoring	16 - 14 for client access, 2 for monitoring
Physical Security	Kensington Lock	Kensington Lock
Dimensions		
Height	Height 1.1 in (2.7 cm), Width 6.4 in (16.3 cm), Length 5.1 in (12.9 cm)	Height 1.1 in (2.7 cm), Width 6.4 in (16.3 cm), Length 5.1 in (12.9 cm)
Weight	11.2 oz (317 g)	11.3 oz (320 g)
Mount	Wall or Ceiling	Wall or Ceiling
Environment		
Power Adaptor	Adaptor Input 100-240V 50/60Hz 0.6A Output: 12V DC 1.5A –center positive	
Humidity	10% to 90% non condensing • storage humidity: 5%-90% non condensing	
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	
Storage Temperature	-4 to 158 deg F (-25 to 70 deg C)	
Target Application	Dedicated AP w/background scan or dedicated air monitor	Simultaneous AP and dedicated air monitor

FortiAP Wireless Features	
Compliance	FCC 15 B parts 15.107 and 15.109 • FCC 15 C parts 15.247 and 15.207 and 15.203 • FCC 15 E parts 15.407 and 15.207 and 15.203 • CE Standard • EN300 328 • EN301 893 • EN301 489-1 • EN301 489-17 • EN55022 • EN55024 • Low Voltage Directive • RoHS
Physical Rate / Association Rate (Mbps)	802.11b: 1, 2, 5.5, 11 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 802.11n: MCS0 - MCS15 / 6.5 - 300
Tx / Rx per Radio – Multiple-In/Multiple-Out (MIMO)	2x2 with 2 spatial streams
Frequency Bands	2.400 - 2.4835 GHz • 5.150 - 5.250 GHz • 5.250 - 5.350 GHz • 5.470 - 5.725 GHz • 5.725 - 5.850 GHz
802.11n Packet Aggregation: A-MPDU, A-MSDU	Yes
Maximum Ratio Combining (MRC) for improved receiver performance	Yes
802.11n High-Throughput (HT) Support: HT 20/40	Yes

Ordering Info		
Product	SKU	Description
FortiAP-210B	FAP-210B	Dual Band - Single Radio controller based thin access point – Supports 802.11 a/b/g/n. PoE power option.
	FC-10-P0210-311-02-DD	8x5 Enhanced FortiCare
	FC-10-P0210-247-02-DD	24x7 Comprehensive FortiCare
FortiAP-220B	FAP-220B	Dual Band - Dual Radio controller based thin access point – supports 802.11 a/b/g/n on Radio1, 802.11 b/g/n on Radio2. PoE power option.
	FC-10-P0221-311-02-DD	8x5 Enhanced FortiCare
	FC-10-P0221-247-02-DD	24x7 Comprehensive FortiCare

FortiGuard® Security Subscription Services deliver dynamic, automated updates for Fortinet products. The Fortinet Global Security Research Team creates these updates to ensure up-to-date protection against sophisticated threats. Subscriptions include antivirus, intrusion prevention, web filtering, antispam, vulnerability and compliance management, application control, and database security services.

FortiCare™ Support Services provide global support for all Fortinet products and services. FortiCare support enables your Fortinet products to perform optimally. Support plans start with 8x5 Enhanced Support with “return and replace” hardware replacement or 24x7 Comprehensive Support with advanced replacement. Options include Premium Support, Premium RMA, and Professional Services. All hardware products include a 1-year limited hardware warranty and 90-day limited software warranty.

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