



# FortiAP™ -112B Outdoor Secure Business-Grade Wireless Access Point

## The Need for a Fortified Wireless LAN

Enterprises are looking to increase productivity through uninterrupted access to applications and resources, without compromising security and agility. You want to increase visibility and control of your wireless network traffic by enforcing the same policies as your wired network and eliminate potential blind spots. . You also need a solution that helps you meet compliance by proactively blocking unauthorized access, providing tools for business continuity, and following industry best practices.

## Integrated Wireless Security and Access Solution

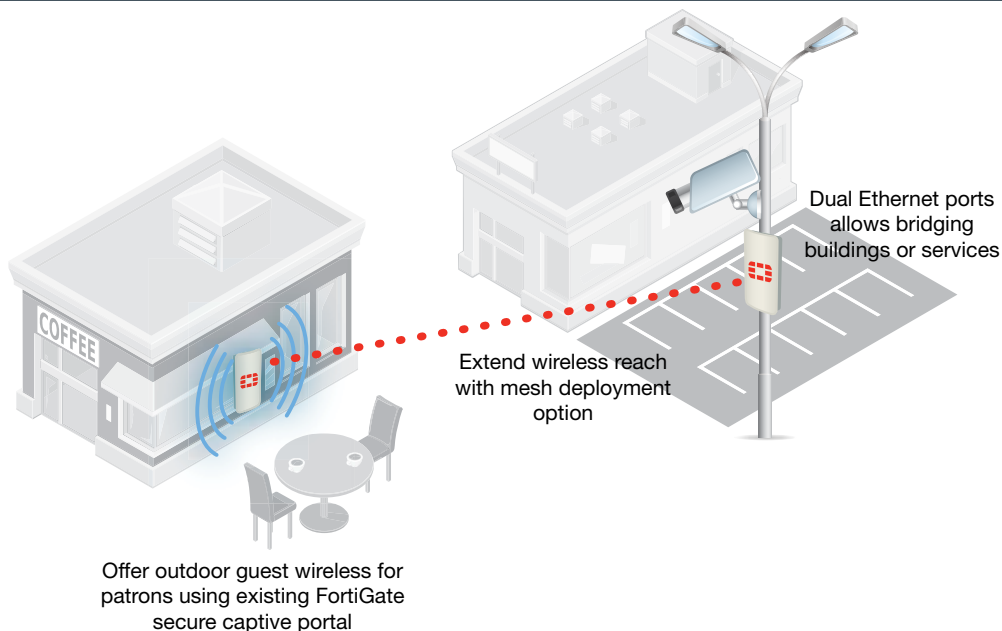
Fortinet's FortiAP-112B wireless thin access point delivers secure, identity-driven WiFi client access that creates a fortified WLAN network. Centrally managed by a FortiGate® or FortiWiFi™ platform with its integrated wireless controller, FortiAPs allow you to deploy a comprehensive, integrated security solution for your wireless and wired networks. By acting as a wireless controller, FortiGate or FortiWiFi security platforms enable you to deploy comprehensive unified threat management (UTM) protection over your wireless network.

## Economical and versatile thin Access Point

The FortiAP-112B provides standards-based IEEE 802.11b/g/n economically priced to deliver wireless access on the 2.4GHz frequency at data rates of up to 65Mbps. The FortiAP has built-in directional antenna which directs signal up to 6dB allowing for high performance, long reach point-to-point connections. Just like all FortiAP products, this versatile AP can be configured to operate in AP mode, Mesh mode, Bridge Mode, or as a remote AP.

- In AP mode, FortiAP can provide outdoor wireless access, and leverages the FortiGate security and authentication features such as guest user self provisioning and metered bandwidth hotspots
- The same access point can be used as a Mesh wireless client enabling point-to-multipoint coverage for large outdoor coverage. FortiAP includes dual Ethernet interfaces allowing a Mesh node to bridge traffic to a remote security camera or bridge two LAN networks in different buildings.
- The access point can also be installed at a remote location without a physical FortiGate on site. It will tunnel its traffic securely over the Internet to a cloud-based wireless controller, allowing versatile yet low cost deployment.

### FortiAP Deployment Example



DATASHEET



## High Performance Secure Thin Access Points

- Leverage existing FortiGate or FortiWiFi platforms as controllers for low TCO
- Full range of authentications and access for all use cases
- Integration with FortiManager and FortiAnalyzer for unified control and reporting
- Fast Roaming for uninterrupted data access
- Automatic Radio Resource Provisioning (ARRP) for optimized throughput
- Flexible deployment options with simple per device pricing
- Layer 7 application QoS for maximum business productivity
- Rogue AP control for PCI DSS compliance



Differentiating Feature	Benefit
Enterprise Unified Threat Management	Protects your network with the widest range of security and networking technologies seamlessly integrated into a single device: Firewall, IPS, Application Control, VPN, Web Filtering, and many others.
Application-Layer Quality of Service	Going above and beyond Wireless Multimedia Extensions (WME) by offering layer 7 traffic shaping and application use control.
Robust rogue AP control	Industry's most comprehensive monitoring, detection and suppression of rogue APs for PCI DSS compliance.
'Single Pane of Glass' Management Console	Unmatched visibility and control of all wired and wireless network traffic that eliminates blindspots in your security infrastructure and ensures consistent and effective policy enforcement and compliance.
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.
TX Beam Forming (TxBF) and Maximal Ratio Combining (MRC)	Leads to wider coverage and optimum performance due to extended Rate over a longer range.

Technical Specifications		FortiAP-112B
Hardware Specifications		
Indoor/Outdoor Deployment	Indoor or outdoor IP55 rated	
Number of Radios	1	
Number of Antennas	1 internal	
Peak Antenna Gain	6dBi	
Frequency Bands (GHz)*	2.400 - 2.4835	
Frequency of Radio 1	2.4GHz IEEE b/g/n	
Tx/Rx Streams (802.11n mode)	1x1 MIMO with 1 spatial stream 65 Mbps association rate	
Ethernet Port	2 x 10/100	
Serial Console Port	No	
Power over Ethernet (PoE)	15.4W	
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)	
Simultaneous SSIDs	8 (7 for client access, 1 for monitoring)	
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST	
User/Device Authentication	WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist	
Maximum Tx Power	24 dBm (250mW) *	
Mean Time Between Failures		
IEEE Specifications	802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1X	
Dimensions		
Length x Width x Height	7.3 in (18.5 cm) x 2.6 in (6.6 cm) x 1.3 in (3.3 cm)	
Access Point Weight	9.5 oz (270 g)	
Package (shipping) Weight	16.8 oz (476 g)	
Mounting Options	Wall mount and Pole mount options, drywall anchors supplied	
Environment		
Power Adapter	Power adapter and PoE injector included	
Humidity	10% to 90% non condensing	
Operating Temperature	-4 – 140 °F (-20 – 60 °C)	
Storage Temperature	-4 – 158 °F (-20 – 70 °C)	
Target Application	Economical Outdoor point to point bridging and guest wireless	
Directives	Low Voltage Directive • RoHS	

\* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

RF RX/TX Performance Table		
	Radio 1	
	2.4GHz	
802.11 b	Tx Power (dBm)	Rx Sensitivity
1 Mbps	24	-93
11 Mbps	24	-88
802.11 g		
6 Mbps	24	-92
9 Mbps	24	-88
12 Mbps	24	-88
18 Mbps	24	-85
24 Mbps	24	-82
36 Mbps	23	-79
48 Mbps	22	-75
54 Mbps	21	-73
802.11n HT20		
MCS 0	24	-92
MCS 1	24	-90
MCS 2	24	-87
MCS 3	24	-82
MCS 4	23	-79
MCS 5	22	-75
MCS 6	21	-74
MCS 7	20	-73

Declaration of Conformity	
Organization	Compliance Identifier
CB	IEC 60950-1:2005
UL	UL 60950-1, CSA C22.2 No. 60950-1-07
FCC	FCC Part 15, Class B and Subpart C & E ICES-003
CE	RR&TTE Directive 1999/5/EC EN 300 328 /EN 301 489/ EN 301 893 EN 50385
	EU Directive 2004/108/EC EMC EU Directive 2006/95/EC LVD EN 55022/ EN 55024/EN 61000
IC	Canada RSS-210 Issue 7 Canada RSS-Gen Issue 2
	RSS102, Issue 4

Ordering Information		
Product	SKU	Description
FortiAP-112B	FAP-112B	Single band single radio (2.4GHz) controller based thin access point - supports 802.11 b/g/n at 65Mbps Max, 2x 10/100 RJ45, propriety PoE, outdoor application
	FC-10-P0223-311-02-DD	8x5 Enhanced FortiCare.
	FC-10-P0223-247-02-DD	24x7 Comprehensive FortiCare.
FortiPlanner	N/A	Access point deployment planning software. Visit <a href="http://wireless.fortinet.com/">http://wireless.fortinet.com/</a> for download and further information.
	FAP-FPL-PRO	Unlimited AP placement.

Region/Country SKU Suffix*									
Americas-FCC	China	Europe ETSI	International	Japan	Korea	Non-FFCA	Singapore	Taiwan	World 2.4G
-A	-C	-E	-I	-J	-K	-N	-S	-T	-W

\*For the complete list of countries and regions, refer to <http://www.fortinet.com/wireless>.

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