



FortiAP™ B-Series Access Points
Integrated Wireless Security and Access



FortiAP B-Series Access Points

FortiAP 112B, 210B, 221B, 222B, 223B and 320B

Integrated Wireless Security and Access

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 meets compliance objectives by proactively blocking unauthorized access all while providing tools for business continuity by following industry best practices.

Integrated Wireless Security and Access Solution

Fortinet's FortiAP wireless thin access points deliver 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 protection of the industry leader in enterprise Unified Threat Management (UTM), in overlay architecture, thus leveraging your current investment.

Industry-Leading Wireless Technology

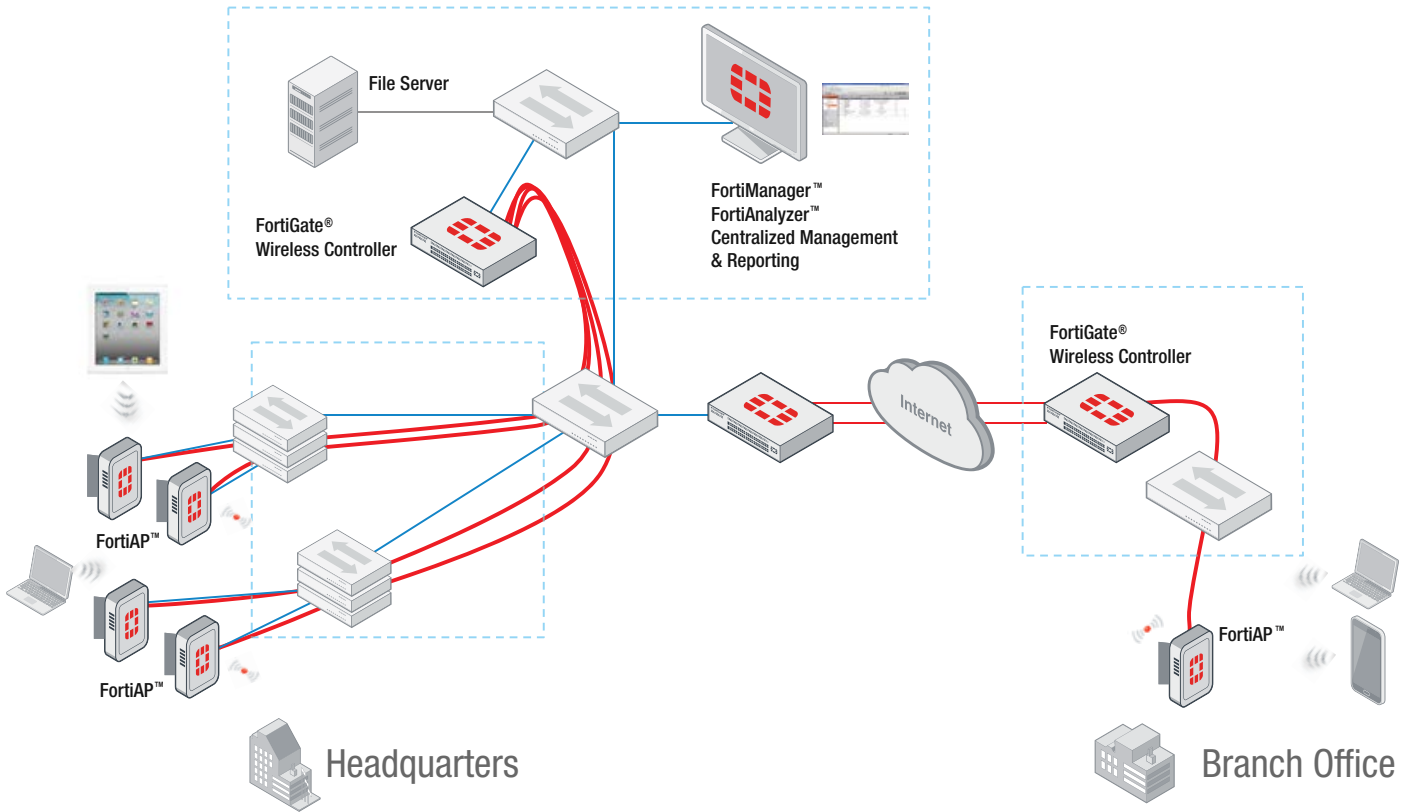
FortiAP wireless access points are IEEE 802.11a/b/g/n standards-based, and operate on both 2.4 GHz b/g/n and 5 GHz a/n spectrums. Each FortiAP can support up to eight SSIDs per radio — seven for client access and one for scanning for rogue access points. They also use multiple discovery techniques to find available FortiGate controllers over L2 or L3 networks.

High Performance Secure Thin Access Points

- Leverage existing FortiGate or FortiWiFi platforms as controllers for low TCO
- Simultaneous security monitoring and client services
- Full range of authentications and access for all use cases
- 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



DEPLOYMENT



Differentiating Features & Benefits

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 blind spots in your security infrastructure and ensures consistent and effective policy enforcement and compliance.

RF RX/TX PERFORMANCE TABLES

Radio 1 (FAP-112B)		
802.11 b	2.4 GHz 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

Radio 1 (FAP-210B)				
802.11 a/g	2.4 GHz Tx Power	Rx Sensitivity	5 GHz Tx Power	Rx Sensitivity
6 Mbps	15	-89	19	-90
9 Mbps	15	-89	19	-89
12 Mbps	15	-87	19	-87
18 Mbps	15	-85	19	-85
24 Mbps	15	-81	19	-81
36 Mbps	15	-78	19	-78
48 Mbps	15	-75	19	-75
54 Mbps	15	-73	19	-73
802.11n HT20				
MCS0	15	-93	19	-90.5
MCS1	15	-92	18	-88
MCS2	15	-88.5	17.5	-85
MCS3	15	-87	17.5	-83
MCS4	15	-83	17.5	-79.5
MCS5	15	-80	17.5	-75
MCS6	15	-78	17	-73
MCS7	15	-75	16	-72
802.11n HT40				
MCS0 /8	14.6	-90	18	-86
MCS1 /9	14.6	-89	17	-85
MCS2 /10	14.6	-87	17	-83
MCS3 /11	14.6	-83	17	-80.5
MCS4 /12	14.6	-89	17	-77.5
MCS5 /13	14.6	-80	16.5	-73
MCS6 /14	14.6	-75	16	-71
MCS7 /15	14.6	-72	15	-70

RF RX/TX PERFORMANCE TABLES

802.11 a/g	Radio 1 (FAP-222B)		Radio 2 (FAP-222B)	
	2.4 GHz Tx Power	Rx Sensitivity	5 GHz Tx Power	Rx Sensitivity
6 Mbps	27	-95	26	-95
9 Mbps	27	-93	26	-93
12 Mbps	27	-91	26	-91
18 Mbps	27	-90	26	-90
24 Mbps	27	-88	26	-88
36 Mbps	26	-86	25	-86
48 Mbps	25	-84	23	-84
54 Mbps	24	-80	21	-80
802.11n				
MCS0 /8	27	-95	27	-94
MCS1 /9	27	-92	27	-90
MCS2 /10	27	-89	27	-87
MCS3 /11	27	-86	26	-85
MCS4 /12	26	-83	25	-83
MCS5 /13	25	-81	23	-80*
MCS6 /14	24	-79	22	-78
MCS7 /15	23	-77	21	-76

802.11 a/g	Radio 1 (FAP-221B Only)			Radio 2 (FAP-221B and 223B)	
	2.4 GHz Rx Sensitivity	5 GHz Tx Power (dBm)	Rx Sensitivity	2.4 GHz Tx Power (dBm)	Rx Sensitivity
6 Mbps	-96	20	-94	20	-88
9 Mbps	-93	19	-92	20	-88
12 Mbps	-90	19	-90	20	-86
18 Mbps	-87	19	-83	20	-84
24 Mbps	-85	19	-80	20	-80
36 Mbps	-82	18	-77	19	-77
48 Mbps	-78	18	-76	19	-74
54 Mbps	-77	17	-73	18	-72
802.11n HT20					
MCS0	-91	20	-92	20	-92
MCS1	-91	19	-90	20	-90
MCS2	-88	19	-87	20	-87
MCS3	-85	19	-85	20	-85
MCS4	-83	19	-82	20	-82
MCS5	-80	18	-79	19	-78
MCS6	-78	18	-76	19	-77
MCS7	-76	17	-74	18	-74
802.11n HT40					
MCS0 /8	-91	20	-91	20	-92
MCS1 /9	-90	19	-88	20	-89
MCS2 /10	-87	19	-85	20	-86
MCS3 /11	-82	19	-82	20	-83
MCS4 /12	-70	19	-79	20	-80
MCS5 /13	-76	18	-76	19	-77
MCS6 14	-74	18	-74	19	-74
MCS7 /15	-71	17	-72	18	-71

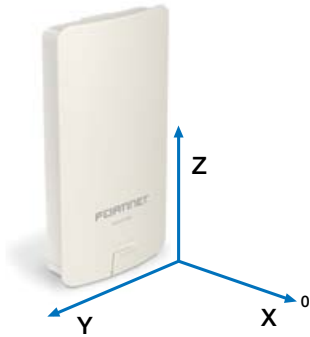
RF RX/TX PERFORMANCE TABLES

802.11 b	Radio 1 (FAP-320B)		Radio 2 (FAP-320B)	
	5 GHz Tx Power (dBm)	Rx Sensitivity	2.4 GHz Tx Power (dBm)	Rx Sensitivity
1 Mbps	24	-93		
11 Mbps	23	-90		
802.11a/g				
6 Mbps	23	-92	20	-90
9 Mbps	23	-90	20	-88
12 Mbps	23	-88	20	-87
18 Mbps	23	-86	20	-85
24 Mbps	23	-84	20	-84
36 Mbps	22	-80	17	-79
48 Mbps	21	-78	15	-78
54 Mbps	20	-76	13	-77
802.11n HT20				
MCS 0/8/16	22	-90	21	-88
MCS 1/9/17		-87	20	-86
MCS 2/10/18	21	-84	20	-84
MCS 3/11/19	21	-81	20	-82
MCS 4/12/20	20	-79	19	-80
MCS 5/13/21	20	-77	19	-78
MCS 6/14/22	19	-75	18	-77
MCS 7/15/23	19	-73	18	-76
802.11n HT40				
MCS 0/8/16	21	-88	17	-86
MCS 1/9/17	20	-85	16	-84
MCS 2/10/18	20	-82	16	-82
MCS 3/11/19	20	-79	16	-80
MCS 4/12/20	19	-77	14	-78
MCS 5/13/21	19	-75	14	-76
MCS 6/14/22	18	-72	13	-74
MCS 7/15/23	18	-70	13	-72

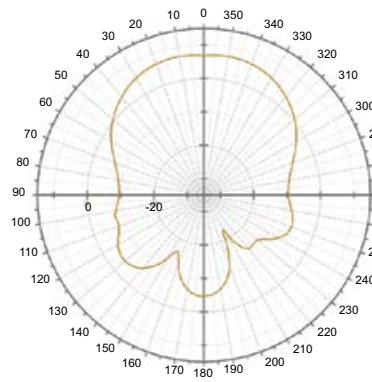
All power values are in dBm.

RADIATION PATTERNS

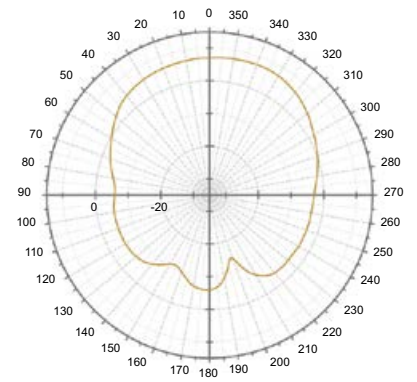
FAP-112B



H-Plane Pattern

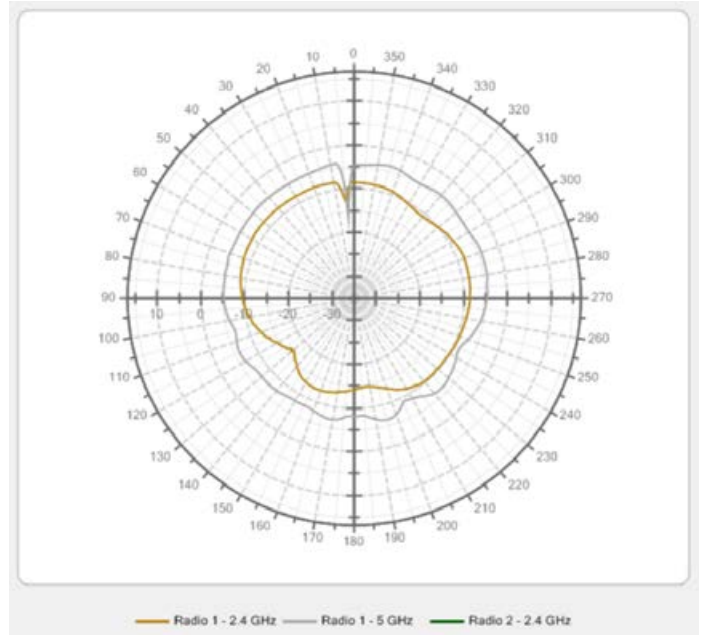
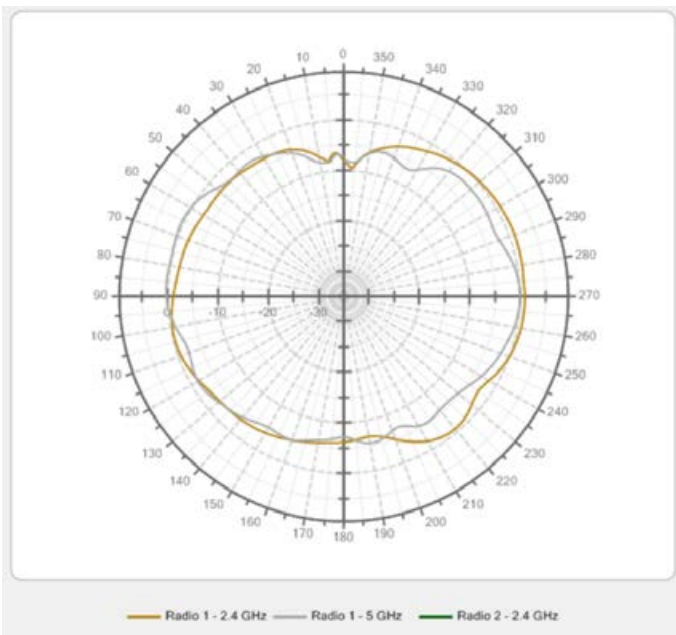
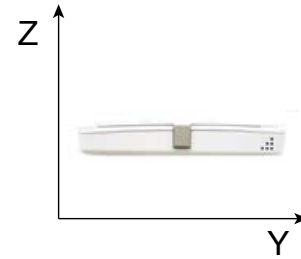
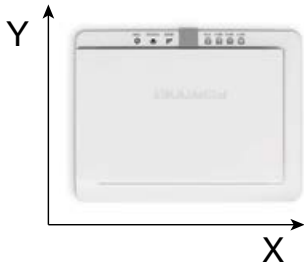


E-Plane Pattern



— Radio 1 - 2.4 GHz

FAP-210B

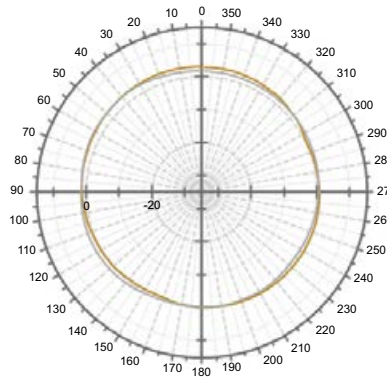


RADIATION PATTERNS

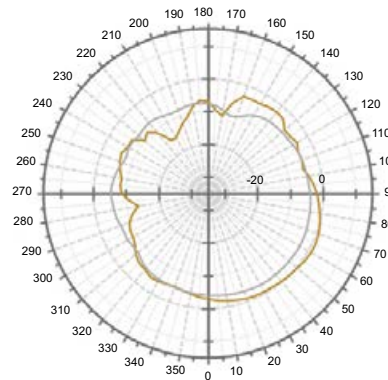
FAP-221B



H-Plane Pattern

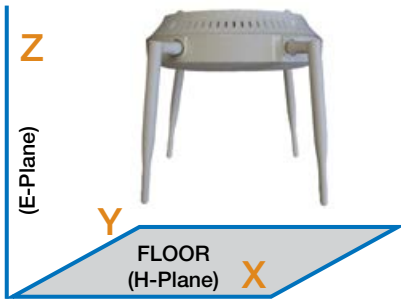


E-Plane Pattern

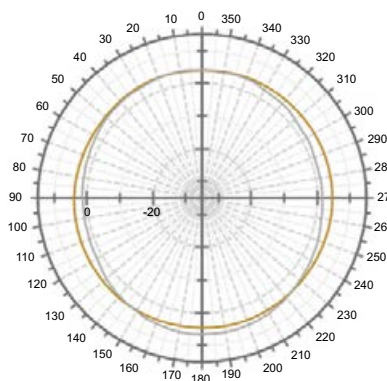


Radio 1 - 5.5 GHz Radio 2 - 2.4 GHz

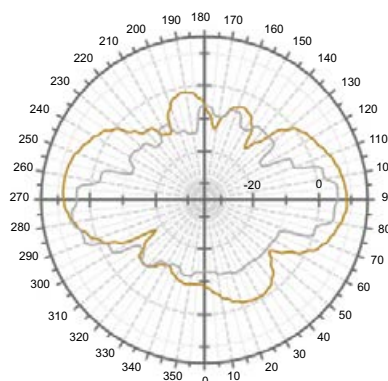
FAP-223B



H-Plane Pattern

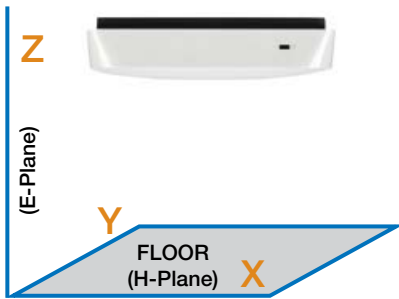


E-Plane Pattern

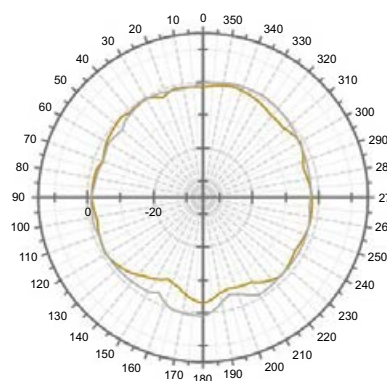


Radio 1 - 2.4 GHz Radio 2 - 5.5 GHz

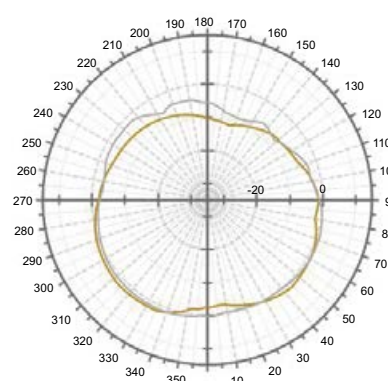
FAP-320B



H-Plane Pattern



E-Plane Pattern



Radio 1 - 5.5 GHz Radio 2 - 2.4 GHz

SPECIFICATIONS

TECHNICAL	FortiAP 210B	FortiAP 222B
Hardware		
Indoor/Outdoor Deployment	Indoor	Outdoor IP67 Rated
Number of Radios	1	2
Number of Antennas	2 internal	4 external – N type 2 pieces – OUTDOOR DIPOLE 2.4 GHz 5 DBI 180 X D20 2 pieces – OUTDOOR DIPOLE 5 GHz 7 DBI 180 X D20
Frequency Bands (GHz) *	2.400–2.4835 • 5.150–5.250 • 5.250–5.350 • 5.470–5.725 • 5.725–5.850	
Frequency of Radio 1	2.4 GHz b/g/n or 5 GHz a/n (Selectable)	5 GHz a/n
Frequency of Radio 2	—	2.4 GHz b/g/n
Tx/Rx Streams n(802.11n mode)	2x2 MIMO dual stream – 300 Mbps/Radio	2x2 MIMO dual stream – 300 Mbps/Radio (600 Mbps Total)
Ethernet Port	1x 10/100/1000	1x 10/100/1000
Serial Console Port	1	1
Power over Ethernet (PoE)	802.3af (15.4 W)	PoE power injector supplied, or 802.3at (30 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)	
WMM® Multimedia Features	Certified by the WiFi Alliance's Wi-Fi Multimedia™ certification program	
Simultaneous SSIDs	8 (7 for client access, 1 for monitoring)	16 (14 for client access, 2 for monitoring)
EAP Type(s)	EAP-TLS EAP-TTLS/MSCHAPv2 EAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC EAP-SIM EAP-AKA EAP-FAST	
Maximum Transmission Power	17 dBm (50 mW)	27 dBm (500 mW) hardware capable – limited by software for regulatory compliance
Physical Security	Kensington Lock	Concrete and pole mount
Mean Time Between Failures	86,013 hours	305,420 hours
Dimensions		
Length x Width x Height (inches)	5.1 x 6.4 x 1.1	10.0 x 7.8 x 2.8
Length x Width x Height (mm)	129.5 x 163 x 27	254 x 197 x 27.5
Weight	11.2 oz (317 g)	5 lbs (2.3 kg)
Mounting Options	Wall or ceiling**	Wall or Pole with mounting kit
Environment		
Power Adapter	Adapter Input: 100–240V, 50/60Hz, 0.6A Output: 12V DC, 1.5A – center positive	PoE injector supplied with AC power source
Power Consumption (Average / Maximum)	N/A	16 / 18.4 W
Humidity	10–90% non-condensing	0–100%
Operating Temperature	32–104°F (0–40°C)	–4–140°F (–20–60°C)
Storage Temperature	–4–140°F (–20–60°C)	–4–140°F (–20–60°C)
Target Application	Dedicated AP with background scan or dedicated air monitor	Warehouses, outdoor areas, industrial settings, and other harsh environments
Directives	Low Voltage Directive • RoHS2	Low Voltage Directive • RoHS2
Certifications		
WiFi Alliance Certified	—	Yes
DECLARATION OF CONFORMITY		
	FortiAP 210B	FortiAP 222B
Organization	Compliance Identifier	Compliance Identifier
CB	IEC 60950-1	IEC 60950-1, IEC 60950-22
UL	UL 60950-1, CSA C22.2 No. 60950-1	UL 60950-1, UL 60950-22, CSA C22.2 No. 60950-1, 60950-22
FCC	FCC Part 15 Subpart B (Class B), Subpart C and Subpart E	FCC Part 15 Subpart B (Class B), Subpart C and Subpart E
IC	RSS-210, RSS-GEN, RSS-102, ICES-003	IC RSS-210, RSS-GEN, RSS-102, ICES-003
CE	R&TTE Directive 1995/5/EC (EN 300 328, EN 301 893, EN 301 489, EN 50385, EN 60950-1) EMC Directive 2004/108/EC (EN 55022, EN 55024) LVD Directive 2006/95/EC (EN 60950-1) RoHS2 Directive 2011/65/EU (EN 50581)	R&TTE Directive 1995/5/EC (EN 300 328, EN 301 893, EN 301 489, EN 50385, EN 60950-1) EMC Directive 2004/108/EC (EN 55022, EN 55024) LVD Directive 2006/95/EC (EN 60950-1, EN 60950-22) RoHS2 Directive 2011/65/EU (EN 50581)

* Frequency selection varies by region-specific SKU

** Sold separately under the SKU: FAP-200-MNT-1

SPECIFICATIONS

TECHNICAL	FortiAP-112B
Hardware	
Indoor/Outdoor Deployment	Indoor or outdoor IP55 rated
Number of Radios	1
Number of Antennas	1 internal
Peak Antenna Gain	8 dBi
Frequency Bands (GHz) *	2.400–2.4835
Frequency of Radio 1	2.4 GHz IEEE b/g/n
Tx/Rx Streams (802.11n mode)	1x1 MIMO with 1 spatial stream. 150 Mbps association rate
Ethernet Port	2 x 10/100
Serial Console Port	No
Power over Ethernet (PoE)	Proprietary PoE injector, 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, 802.11X
Dimensions	
Length x Width x Height (inches)	7.3 x 2.6 x 1.3
Length x Width x Height (mm)	185 x 66 x 33
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
Power Consumption (Average / Maximum)	12.9 / 12.9 W
Humidity	10–90% 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 • RoHS2
DECLARATION OF CONFORMITY	
Organization	Compliance Identifier
CB	IEC 60950-1
UL	UL 60950-1, UL 60950-22, CSA C22.2 No. 60950-1, 60950-22
FCC	FCC Part 15 Subpart B (Class B), Subpart C
IC	RSS-210, RSS-GEN, RSS-102, ICES-003
CE	R&TTE Directive 1995/5/EC (EN 300 328, EN 301 489, EN 50385, EN 60950-1) EMC Directive 2004/108/EC (EN 55022, EN 55024) LVD Directive 2006/95/EC (EN 60950-1) RoHS2 Directive 2011/65/EU (EN 50581)

* Frequency selection varies by region-specific SKU

SPECIFICATIONS

TECHNICAL	FortiAP-221B	FortiAP-223B
Hardware		
Indoor/Outdoor Deployment	Indoor	Indoor
Number of Radios	2	2
Number of Antennas	4 internal	4 RP-SMA External
Peak Antenna Gain	3 dBi for 2.4 GHz, 4 dBi for 5 GHz	3 dBi for 2.4 GHz, 4 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850	
Frequency of Radio 1	2.4 GHz b/g/n or 5 GHz a/n	5 GHz a/n
Frequency of Radio 2	2.4 GHz IEEE b/g/n	2.4 GHz IEEE b/g/n
Tx/Rx Streams (802.11n mode)	2x2 MIMO dual spatial stream – 300 Mbps/Radio	2x2 MIMO dual spatial stream – 300 Mbps/Radio
Ethernet Port	1x 10/100/1000	1x 10/100/1000
Serial Console Port	None	None
Power over Ethernet (PoE)	IEEE 802.3af (15.4W)	IEEE 802.3af (15.4W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	16 (14 for client access, 2 for monitoring)	16 (14 for client access, 2 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	17dBm (50mW)	17dBm (50mW)
Physical Security	Kensington Lock	Kensington Lock
Mean Time Between Failures	> 10 years	> 10 years
IEEE Specifications	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.11x, 802.3af	
802.11n Features	20MHz and 40MHz High-Throughput (HT) Support Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation Conserve power via Dynamic MIMO power save	
Advanced 802.11n to enhance rate-over-range including	Low-density parity check (LDPC) encoding Maximum likelihood demodulation (MLD) Transmit beamforming (TxBF) Maximum Ratio Combining (MRC) for improved receiver performance	
Wireless Monitoring Capabilities		
Frequencies scanned	2.4 GHz and 5 GHz	2.4 GHz and 5 GHz
Background scan with client access on 2.4 and 5 GHz	Supported	Supported
Full-time scan as dedicated Monitor	Supported	Supported
Full-time scan with client access on 2.4 GHz	Supported	—
Target Application	Simultaneous AP and dedicated air monitor or concurrent 2.4 GHz and 5 GHz AP with background scan.	For applications that require connection to directional external antennas.
Dimensions		
Diameter x Height	6.5 x 1.2 inches (16.51 x 4 cm)	6.5 x 2.0 inches (16.51 x 5 cm)
Weight	10.3 oz (300 g)	12.3 oz (350 g)
Package (shipping) Weight	19.5 oz (550 g)	21.3 oz (600 g)
Mounting Options	Drywall Mount anchors, T-Rail Mount and Ceiling mount are included in package	
Environment		
Power Adapter **	Adapter Input: 100-240V, 50/60Hz, 0.4A Output: 12V DC, 1.25A –center positive	
Power Consumption (Average / Maximum)	6.78 / 11.76 W	6.78 / 11.76 W
Humidity	10–90% non condensing	10–90% non condensing
Operating Temperature	32–104°F (0–40°C)	32–104°F (0–40°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Directives	Low Voltage Directive • RoHS2	Low Voltage Directive • RoHS2
Certifications		
WiFi Alliance Certified	Yes	Yes
DECLARATION OF CONFORMITY		
Organization	Compliance Identifier	
CB	IEC 60950-1	
UL	UL 60950-1, CSA C22.2 No. 60950-1	
FCC	FCC Part 15 Subpart B (Class B), Subpart C and Subpart E	
IC	RSS-210, RSS-GEN, RSS-102, ICES-003	
CE	R&TTE Directive 1995/5/EC (EN 300 328, EN 301 893, EN 301 489, EN 50385, EN 60950-1) EMC Directive 2004/108/EC (EN 55022, EN 55024) LVD Directive 2006/95/EC (EN 60950-1) RoHS2 Directive 2011/65/EU (EN 50581)	

* Frequency selection may be restricted to abide by regional regulatory compliance laws. ** Sold separately. See price list.

SPECIFICATIONS

TECHNICAL	FortiAP-320B
Hardware	
Indoor/Outdoor Deployment	Indoor and Plenum
Number of Radios	2
Number of Antennas	6 internal
Peak Antenna Gain	5 dBi for 2.4 GHz, 6 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Frequency of Radio 1	2.4 GHz b/g/n or 5 GHz a/n
Frequency of Radio 2	2.4 GHz IEEE b/g/n
Tx/Rx Streams (802.11n mode)	3x3 MIMO with 3 spatial streams. 450 Mbps / Radio for total of 900 Mbps aggregated traffic
Ethernet Port	2x 10/100/1000
Serial Console Port	Yes
USB **	Yes — for quick setup using FortiExplorer smartphone app
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3af or 802.3at
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	16 (14 for client access, 2 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) *
Physical Security	Kensington Lock
Mean Time Between Failures	> 5 years
IEEE Specifications	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1X, 802.3af
802.11n Features	20Mhz and 40Mhz High-Throughput (HT) Support Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation Conserve power via Dynamic MIMO power save
Advanced 802.11n to enhance rate-over-range including	Low-density parity check (LDPC) encoding Maximum likelihood demodulation (MLD) Transmit beamforming (TxBF) Maximum Ratio Combining (MRC) for improved receiver performance
Dimensions	
Length x Width x Height (inches)	6.5 x 6.5 x 1.6
Length x Width x Height (cm)	16.51 x 16.51 x 4
Weight	19.5 oz. (550 g)
Package (shipping) Weight	28.6 oz (810 g)
Mounting Options	Drywall Mount anchors, T-Rail Mount and Ceiling mount are included in package
Environment	
Power Adapter ***	Adapter Input: 100-240V, 50/60Hz, 0.4A Output: 12V DC, 1.25A center positive
Power Consumption (Average / Maximum)	10.47 / 12.07 W
Humidity	10–90% non condensing
Operating Temperature	32–104°F (0–50 °C)
Storage Temperature	-4–158°F (-20–70 °C)
Target Application	Suitable for high performance, high availability installations.
Directives	Low Voltage Directive • RoHS2 UL 2043 plenum rated
Certifications	
WiFi Alliance Certified	Yes
DECLARATION OF CONFORMITY	
Organization	Compliance Identifier
CB	IEC 60950-1
UL	UL 60950-1, UL 2043, CSA C22.2 No. 60950-1
FCC	FCC Part 15 Subpart B (Class B), Subpart C and Subpart E
IC	RSS-210, RSS-GEN, RSS-102, ICES-003
CE	R&TTE Directive 1995/5/EC (EN 300 328, EN 301 893, EN 301 489, EN 50385, EN 60950-1) EMC Directive 2004/108/EC (EN 55022, EN 55024) LVD Directive 2006/95/EC (EN 60950-1) MD Directive 93/42/EEC (EN 60601-1-2) RoHS2 Directive 2011/65/EU (EN 50581)

* Frequency selection may be restricted to abide by regional regulatory compliance laws. ** Non-operational under 802.3af power. *** Sold separately. See price list.

ORDER INFORMATION

Product	SKU	Description
FortiAP 112B	FAP-112B	Outdoor/Indoor wireless AP — 2x GE RJ45 ports, single radio (802.11 b/g/n, 1x1 MIMO), Integrated wall mount, Proprietary PoE injector with AC power adapter included.
	FC-10-P0112-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0112-247-02-DD	24x7 FortiCare Contract.
	SP-FAP112B-PA	Proprietary PoE injector with AC power adapter for FortiAP-112B.
FortiAP 210B	FAP-210B	Indoor wireless AP — 1x GE RJ45 port, single radio (802.11 a/b/g/n, 2x2 MIMO), Integrated wall mount, ceiling mount kit not included, AC power adapter included. For Gigabit PoE injector order: GPI-115. For ceiling mount kit order: FAP-200-MNT-1.
	FC-10-P0210-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0210-247-02-DD	24x7 FortiCare Contract.
	FAP-200-MNT-1	FAP-200-MNT-1 Ceiling Tile Rail Mount Kit for 15/16" and 9/16" drop ceiling rails with cable conceal cover. For use with FAP-220A, FAP-220B, FAP-210B.
FortiAP 222B	FAP-222B	Outdoor wireless AP — 1x GE RJ45 port, dual radio (802.11 a/b/g/n and 802.11 b/g/n, 2x2 MIMO), external antennas, Ceiling/wall mount kit included, Proprietary PoE injector with AC power adapter included.
	FC-10-P0222-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0222-247-02-DD	24x7 FortiCare Contract.
	SP-FAP222B-PA	Proprietary PoE injector with AC power adapter for FAP-222B.
FortiAP 221B	FAN-336R-222	4 Omnidirectional 360 degree replacement antennas for FAP-222B with N connectors (2 units of 2.4 G and 2 units of 5 G in package for FAP-222B).
	FAP-221B	Indoor wireless AP — 1x GE RJ45 port, dual radio (802.11 a/b/g/n and 802.11 b/g/n, 2x2 MIMO), Ceiling/wall mount kit included, Power adapter not included. For Gigabit PoE injector order: GPI-115. For AC power adapter order: SP-FAP221B-PA.
	FC-10-P0223-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0223-247-02-DD	24x7 FortiCare Contract.
FortiAP 223B	SP-FAP221B-PA	AC Power Adapter for FAP-221B and FAP-223B.
	FAP-223B	Indoor wireless AP — 1x GE RJ45 port, dual radio (802.11 a/b/g/n and 802.11 b/g/n, 2x2 MIMO), external antennas, Ceiling/wall mount kit included, Power adapter not included. For Gigabit PoE injector order: GPI-115. For AC power adapter order: SP-FAP221B-PA.
	FC-10-P0224-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0224-247-02-DD	24x7 FortiCare Contract.
FortiAP 320B	FAN-336R-223	4 Omnidirectional 360 degree replacement antennas for FAP-223B with RP-SMA connectors (2 units of 2.4 G and 2 units of 5 G in package for FAP-223B).
	FAP-320B	Indoor wireless AP — 2x GE RJ45 ports, dual radio (802.11 a/b/g/n and 802.11 b/g/n, 3x3 MIMO), Ceiling/wall mount kit included, Power adapter not included. For Gigabit PoE injector order: GPI-115. For AC power adapter order: SP-FG20C-PA.
	FC-10-P0320-311-02-DD	8x5 FortiCare Contract.
	FC-10-P0320-247-02-DD	24x7 FortiCare Contract.
GPI-115 PoE	SP-FG20C-PA-US	AC Power adapter for FG/FWF-20C series, FG/FWF-30D, FS-28C, FAP-28C, FAP-221C, FAP-320B and FAP-320C with US power plug
	GPI-115	1-Port Gigabit PoE Power Injector, 802.3af 15.4 Watts 10/100/1000 (PD-3501).
FortiPlanner	N/A	FortiPlanner Wireless AP Deployment Planning Utility — FortiPlanner Lite Edition free download from Fortinet.com to support up to 50 Access Points. Requires Windows XP or Windows 7.
	FAP-FPL-PRO	FortiPlanner Wireless AP Deployment Planning Utility — Pro upgrade license unlocks FortiPlanner Lite (free version) to support more than 50 Access Points and includes site survey tool. Requires Windows 7.

REGION/COUNTRY SKU SUFFIX*

Americas	Europe ETSI	International	Japan	Korea	Non-FFCA	Singapore	Taiwan	World 2.4G
-A	-E	-I	-J	-K	-N	-S	-T	-W

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



GLOBAL HEADQUARTERS
 Fortinet Inc.
 899 Kifer Road
 Sunnyvale, CA 94086
 United States
 Tel: +1.408.235.7700
www.fortinet.com/sales

EMEA SALES OFFICE
 905 rue Albert Einstein
 Valbonne 06560
 Alpes-Maritimes, France
 Tel: +33.4.8987.0500

APAC SALES OFFICE
 300 Beach Road 20-01
 The Concourse
 Singapore 199555
 Tel: +65.6395.2788

LATIN AMERICA SALES OFFICE
 Sawgrass Lakes Center
 13450 W. Sunrise Blvd., Suite 430
 Sunrise, FL 33323
 United States
 Tel: +1.954.368.9990