

# FortiAP™ Smart Access Point Series

Cloud or FortiOS-managed Smart Access Points

The FortiAP-S Series are the first Access Points of their kind to have a Next Generation Firewall built in. They are equipped with extra memory and a powerful processor that enables them to perform real-time security processing on the AP, providing complete protection against all manner of WiFi and cyber-threats at the network edge. With Fortinet's award-winning security technology, the FortiAP-S series provides the most compact solution for complete content and application security in a WiFi architecture.





# **Cloud Management**

Combines the low CAPEX and convenience of cloud management, with cloud-provided threat protection, delivered through regular FortiGuard updates.



# **Advanced Security Protection**

On-board IPS, antivirus scanning, web-filtering and application control, protects all users and devices from the latest security threats.



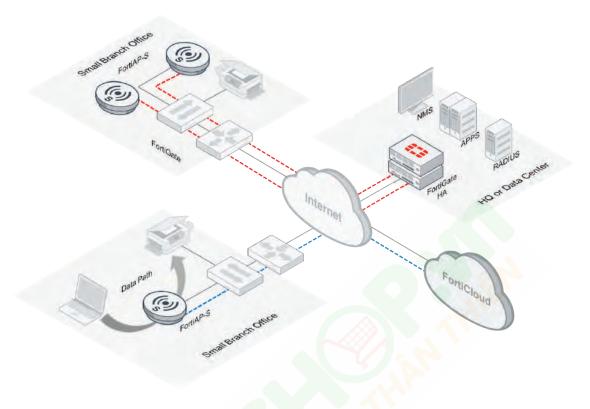
# **Built-in WiFi Security**

Protects the network from advanced wireless threats to satisfy PCI DSS compliance. PCI-DSS compliance reports available through FortiCloud.

### **Product Offerings**

2	FAP-S221E FAP-S223E	2x2 APs with dual radios
1ac Wave	FAP-S421E FAP-S423E	4x4 APs with dual radios
802.11ac	FAP-S422E	Outdoor, 4x4 APs with dual radios and a variety of external antenna options

### **DEPLOYMENT**



Showing both Cloud-managed and FortiGate-managed FAP-S series at remote sites





Fortinet Cloud Solution

- 1. Initial WiFi Connection
- 2. Lookup user in FortiCloud or RADIUS
- 3. Auth via Captive Portal, 802.1X, PSK
- 4. Scan with IPS, AV and botnet engine
- 5. Allow/block URLs and apps
- 6. Only clean traffic continues to wire

Fortinet approach to secure cloud-managed WiFi

### FortiAP S221E

The FAP-S221E is our medium-density 802.11ac Wave 2 access point. This enterprise class access point is ideal for medium-density environments such as office or classroom. The S221E supports MU-MIMO giving excellent performance throughput of up to 867 Mbps and the ability to support 2 simultaneous devices.





802.11ac Wave 2 | Dual Radio 2.4 and 5 GHz | 4 Internal Antennas



Up to 300 + 867 Mbps

### **SPECIFICATIONS**

	FORTIAP S221E	
Hardware		
Hardware Type	Indoor Smart AP	
Number of Radios	2	
Number of Antennas	4 Internal plus 1 Bluetooth	
Peak Antenna Gain	4 dBi for 2.4 GHz, 5 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 (2x2:2 stream), 20/40 Mhz (64 QAM)	
Frequency of Radio 2	5 GHz a/n/ac (2x2:2 stream), 20/40/80 Mhz (256 QAM), MU-MIMO 2 simultanous devices	
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertisement @ 4 dBm maximum TX power	
Throughput	Radio 1: up to 300 Mbps, Radio 2: up to 867 Mbps	
Ethernet Ports	2x GE RJ45	
USB Port	1x Type A	
Serial Console Port	1 RS-232 x RJ45	
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3af (12.9 W	
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)	
Simultaneous SSIDs	16 (14 if background scanning enabled)	
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST	
User/Device Authentication	WPA <sup>TM</sup> and WPA2 <sup>TM</sup> with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist	
Maximum Tx Power	19 dBm (80 mW)*	
Physical Security	Kensington Lock	
Mean Time Between Failures	>30 Years	
IEEE Specifications	802.11a, 802.11b, 80 <mark>2.11d,</mark> 802.11e, 802.11g, 802.11h, 802.11i 802.11j, 802.11n, 802.1x, 802.11ac, 802.3af, 802.3at, 802.3az	
Mounting Options	Ceiling, T-Rail and wall	
Included Accessories	Ceiling, T-Rail and wall mount kit (AC power adapter sold separately)	
FortiPresence Capable	Yes	
Wireless Mesh Capable Modes of Operation	Yes FortiGate or FortiCloud management	
SSID Types Supported	Local-Bridge, Tunnel & Mesh (when managed by FortiGate)	
FortiDeploy and FortiCloud Key	Yes	
Per Radio Client Capacity	Up to 512	
LED Off Mode	Yes	
Onboard Security Features when	Managed from FortiCloud	
Application Control	Yes	
Block Botnet	Yes	
Antivirus	Yes	
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	FORTIAP S221E
URL Filtering	Yes
FortiGuard Security Feed	Subscription available through FortiCloud
Advanced 802.11 Features	
802.11ac Wave2 MU-MIMO	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU	Yes
Packet Aggregation	
MIMO Power Save	Yes
Short Guard Interval	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client access on 2.4 and 5 GHz	Yes
Full-time scan as dedicated monitor	Yes
Full-time scan with client access	No
Packet sniffer mode	Yes
Spectrum analyzer	Yes
Dimensions	
Length x Width x Height	7.87 x 7.87 x 1.81 inches (20 x 20 x 4.6 cm)
Weight	1.2 lbs (0.55 kg)
Package (shipping) Weight	2.5 lbs (1.15 kg)
Environment	
Power Supply	Adapter input:100-240V, 50/60Hz,0.9A, Max output: 12V DC, 3A
Power Consumption (Average / Maximum)	22.87 W / 24 W
Humidity	5–90% non condensing
Operating Temperature	-4-122x°F (-20-50°C)
Storage Temperature	-40-158°F (-40-70°C)
Directives	Low Voltage Directive   RoHS
UL2043 Plenum Material	Yes
IP Rating	
Certifications	
WiFi Alliance Certified  DFS Certified	Yes Yes
Warranty	
Limited Lifetime Warranty	Yes

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

### FortiAP S223E

The FAP-S223E is our medium-density 802.11ac Wave 2 access point. This enterprise class access point is ideal for medium-density environments such as office or classroom. The S223E supports MU-MIMO giving excellent performance throughput of up to 867 Mbps and the ability to support 2 simultaneous devices.



802.11ac Wave 2 | Dual Radio 2.4 and 5 GHz | 4 External Antennas



Up to 300 + 867 Mbps



# **SPECIFICATIONS**

	FORTIAP S223E
Hardware	
Hardware Type	Indoor Smart AP
Number of Radios	2
Number of Antennas	4 External plus 1 Internal Bluetooth
Peak Antenna Gain	4 dBi for 2.4 GHz, 5 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 (2x2:2 stream), 20/40 Mhz (64 QAM)
Frequency of Radio 2	5 GHz a/n/ac (2x2:2 stream), 20/40/80 Mhz (256 QAM), MU-MIMO 2 simultanous devices
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertisement @ 4 dBm maximum TX power
Throughput	Radio 1: up to 300 Mbps, Radio 2: up to 867 Mbps
Ethernet Ports	2x GE RJ45
USB Port	1x Type A
Serial Console Port	1 RS-232 x RJ45
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3af (12.9 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	16 (14 if background scanning enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPV2, EAPVO/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	19 dBm (80 mW)*
Physical Security	Kensington Lock
Mean Time Between Failures	>30 Years
IEEE Specifications	802.11a, 802.11b, 80 <mark>2.11d,</mark> 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x, 802.11ac, 802.3af, 802.3at, 802.3az
Mounting Options	Ceiling, T-Rail and wall
Included Accessories	Ceiling, T-Rail and wall mount kit (AC power adapter sold separately)
FortiPresence Capable	Yes
Wireless Mesh Capable	Yes
Modes of Operation	FortiGate or FortiCloud management
SSID Types Supported	Local-Bridge, Tunnel & Mesh (when managed by FortiGate)
FortiDeploy and FortiCloud Key	Yes
Per Radio Client Capacity	Up to 512
LED Off Mode	Yes
Onboard Security Features when	Managed from FortiCloud
Application Control	Yes
Block Botnet	Yes
Antivirus	Yes
Intrusion Prevention	Yes

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URL Filtering	Yes
FortiGuard Security Feed	Subscription available through FortiCloud
Advanced 802.11 Features	
802.11ac Wave2 MU-MIMO	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU Packet Aggregat <mark>i</mark> on	Yes
MIMO Power Save	Yes
Short Guard Interval	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client access on 2.4 and 5 GHz	Yes
Full-time scan as dedicated monitor	Yes
Full-time scan with client access	No
Packet sniffer mode	Yes
Spectrum analyzer	Yes
Dimensions	
Length x Width x Height	7.87 x 7.87 x 1.81 inches (20 x 20 x 4.6 cm)
Weight	1.3 lbs (0.6 kg)
Package (shipping) Weight	2.6 lbs (1.18 kg)
Environment	
Power Supply  Power Consumption (Average / Maximum)	Adapter input: 100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W
Humidity	5–90% non condensing
Operating Temperature	-4–122x°F (-20–50°C)
Storage Temperature	-40–158°F (-40–70°C)
Directives	Low Voltage Directive ◆ RoHS
UL2043 Plenum Material	Yes
IP Rating	_
Certifications	
WiFi Alliance Certified	Yes
DFS Certified	Yes
Warranty	
Limited Lifetime Warranty	Yes

 $<sup>^{\</sup>star}$  Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

	FORTIAP S221E and S22	3E	DADIO O		
	2.4 GHz	RADIO 1		RADIO 2	
	Tx	Rx	5 GHz Tx	Rx	
802.11 a/g	Power (dBm)	Sensitivity (dBm)	Power (dBm)	Sensitivity (dBm)	
6 Mbps	20	-93	19	-90	
9 Mbps	20	-91	19	-89	
12 Mbps	20	-90	18	-88	
18 Mbps	19	-90 -88	18	-85	
24 Mbps	19	-84	17	-82	
36 Mbps	18	-83	17 17	-82 -79	
48 Mbps	18	-76	17	-76	
54 Mbps	17	-75	16	-74	
802.11n HT20					
MCS 0/8/16	20	-90	19	-90	
MCS 1/9/17	20	-88	18	-87	
MCS 2/10/18	19	-85	18	-85	
MCS 3/11/19	19	-82	17	-82	
MCS 4/12/20	18	-79	17	-78	
MCS 5/13/21	18	-74	17	-73	
MCS 6/14/22	17	-72	16	-72	
MCS 7/15/23	16	-71	16	-70	
802.11n HT40					
MCS 0/8/16	19	-89	18	-88	
MCS 1/9/17	19	-86	18	-86	
MCS 2/10/18	18	-84	<u>18</u>	-84	
MCS 3/11/19	18	-81	17	-80	
MCS 4/12/20	17	-77	17	-77	
MCS 5/13/21	17	-73	16	-73	
MCS 6/14/22	16	-71	16	-71	
MCS 7/15/23	16	-69	15	-69	
802.11 ac VHT20					
MCS 0	20	-90	19	-90	
MCS 1	20	-88	18	-87	
MCS 2	19	-85	18	-84	
MCS 3	19	-82	17	-80	
MCS 4	18	-79	17	-78	
MCS 5	18	-74	17 17 17	-73	
MCS 5 MCS 6	17	-72	16	-72	
MCS 7	16	-71	16	-71	
MCS 8	15	-67	16	-67	
802.11 ac VHT40					
MCS 0	19	-89	18	-88	
MCS 1	19	-86	18	-85	
MCS 2	18	-84	18	-83	
MCS 3	18	-81	17	-80	
MCS 4	17	-77	17	-77	
MCS 5	17	-73	16	-71	
MCS 6	16	-71	16	-70	
MCS 7	16	-69	15	-68	
MCS 8	15	-67	15	-66	
MCS 9	15	-65	15	-63	
802.11 ac VHT80					
MCS 0			17	-85	
MCS 1			17	-80	
MCS 2			17	-78	
MCS 3			16	-75	
MCS 4			16	-72	
MCS 5			16	-71	
MCS 6			15	-67	
MCS 7			15	-65	
MCS 8			14	-61	

### FortiAP S421E

The FAP-S421E is our high-density 802.11ac Wave 2 access point. This enterprise class access point is ideal for large high-density environments such as a large office or classroom. The S421E supports MU-MiMO giving excellent performance throughput of up to 1.733 Gbps and the ability to support 3 simultaneous devices.



802.11ac Wave 2 | Dual Radio 2.4 and 5 GHz | 8 Internal Antennas



Up to 800 + 1,733 Mbps



### **SPECIFICATIONS**

	FORTIAP S421E
Hardware	
Hardware Type	Indoor Smart AP
Number of Radios	2
Number of Antennas	8 Internal
Peak Antenna Gain	4 dBi for 2.4 GHz, 5 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 (4x4:4 stream), 20/40 Mhz (64 QAM)
Frequency of Radio 2	5 GHz a/n/ac (4x4:4 stream), 20/40/80 Mhz (256 QAM),
	MU-MIMO 3 simultanous devices
Throughput	Radio 1: up to 600 Mbps, Radio 2: up to 1.733 Gbps
Ethernet Ports	2x GE RJ45
USB Port	1x Type A
Serial Console Port	1 RS-232 x RJ45
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3at (25.5 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	16 (14 if background scanning enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2,
	PEAPV1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST
User/Device Authentication	WPATM and WPA2TM with 802.1x or Preshared key, WEP and Web
Maximum Tx Power	Captive Portal, MAC blacklist & whitelist  19 dBm (80 mW)*
Physical Security	Kensington Lock
Mean Time Between Failures	>30 Years
IEEE Specifications	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i,
ILLE Specifications	802.11j, 802.11n, 802.1x, 802.11ac, 802.3af, 802.3at, 802.3az
Mounting Options	Ceiling, T-Rail and wall
Included Accessories	Ceiling, T-Rail and wall mount kit (AC power adapter sold separately)
FortiPresence Capable	Yes
Wireless Mesh Capable	Yes
Modes of Operation	FortiGate or FortiCloud management
SSID Types Supported	Local-Bridge, Tunnel & Mesh (when managed by FortiGate)
FortiDeploy and FortiCloud Key	Yes
Per Radio Client Capacity	Up to 512
LED Off Mode	Yes
Onboard Security Features when	Managed from FortiCloud
Application Control	Yes
Block Botnet	Yes
Antivirus	Yes
Intrusion Prevention	Yes
URL Filtering	Yes
FortiGuard Security Feed	Subscription available through FortiCloud

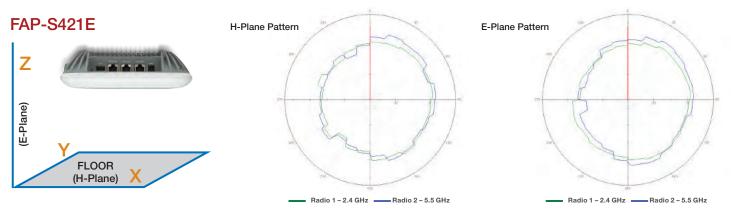
Advanced 802.11 Features	
802.11ac Wave2 MU-MIMO	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU Packet Aggregation	Yes
MIMO Power Save	Yes
Short Guard Interval	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client access on 2.4 and 5 GHz	Yes
Full-time scan as dedicated monitor	Yes
Full-time scan with client access	No
Packet sniffer mode	Yes
Spectrum analyzer	Yes
Dimensions	
Length x Width x Height	8.46 x 8.46 x 2.2 inches (21.5 x 21.5 x 5.6 cm)
Weight	3.31 lbs (1.5 kg)
Package (shipping) Weight	5.09 lbs (2.31 kg)
Environment	
Power Supply	Adapter input:100-240V, 50/60Hz, 0.9A, Max output: 12V DC, 3A
Power Consumption (Average / Maximum)	22.87 W / 24 W
Humidity	5–90% non condensing
Operating Temperature	-4-122°F (-20-50°C)
Storage Temperature	-40–158°F (-40–70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	Yes
IP Rating	_
Certifications	
WiFi Alliance Certified	Yes
DFS Certified	Yes
Spectralink Certified	Yes
Warranty	
Limited Lifetime Warranty	Yes

 $<sup>^{\</sup>star}$  Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

	FORTIAP S421E			
	RADIO 1		RADIO 2	
	2.4 GHz Tx	Rx	5 GHz Tx	Rx
802.11 a/g	Power (dBm)	Sensitivity (dBm)	Power (dBm)	Sensitivity (dBm)
6 Mbps	22	-94	20	-91
9 Mbps	22	-92	20	-89
12 Mbps	22	-89	20	-86
18 Mbps	22	-88	20	-85
24 Mbps	22	-83	20	-80
B6 Mbps	22	-78	20 19	-75
48 Mbps	22	-77	19	-74
54 Mbps	19	-76	18	-73
302.11 HT20				
MSC 0/8/16 (BPSK)	22	-91	20	-89
MSC 1/9/17 (QPSK)	21	-89	19	-87
MSC 2/10/18 (QPSK)	20	-86	19	-84
MSC 3/11/19 (16-QAM)	19	-85	18	-83
MSC 4/12/20 (16-QAM)	19	-80	17	-78
MSC 5/13/21 (64-QAM)	18	-75	17	-73
MSC 6/14/22 (64-QAM)	18	-74	17	-72
MSC 7/15/23 (64-QAM)	18	-73	17	-71
302.11 HT40				
MSC 0/8/16 (BPSK)	21	-89	20	-86
MSC 1/9/17 (QPSK)	20	-87	19	-84
MSC 2/10/18 (QPSK)	20	-84	19	-81
MSC 3/11/19 (16-QAM)	19	-83	19 18	-80
MSC 4/12/20 (16-QAM)	19	-78	18	-75
MSC 5/13/21 (64-QAM)	18	-73	17	-70
MSC 6/14/22 (64-QAM)	18	-72	17 17 17	-69
MSC 7/15/23 (64-QAM)	18	-71	17	-68
MSC 8/16/24 (256-QAM)			14	-65
MSC 9/17/25 (256-QAM)			14	-63
302.11 HT80				
MSC 0 (BPSK)			18	-83
MSC 1 (QPSK)			17	-80
MSC 2 (QPSK)			17	-78
MSC 3 (16-QAM)		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	16	-75
MSC 4 (16-QAM)	<u></u>		16	-75 -73
MSC 5 (64-QAM)			15	-72
MSC 6 (64-QAM)			15	-70
MSC 7 (64-QAM)			15	-69
/ISC 8 (256-QAM)			15	-65
MSC 9 (256-QAM)			15	-59

Maximum capability of the Hardware provided (Exenculding antenna gain)

### **ANTENNA RADIATION PATTERNS**



### FortiAP S423E

The FAP-423E is our high-density 802.11ac Wave 2 access point. This enterprise class access point is ideal for large high-density environments such as a large office or classroom. The S423E supports MU-MiMO giving excellent performance throughput of up to 1.733 Gbps and the ability to support 3 simultaneous devices.



802.11ac Wave 2 | Dual Radio 2.4 and 5 GHz | 8 External Antennas



Up to 800 + 1,733 Mbps



### **SPECIFICATIONS**

Hardware	
Hardware Type	Indoor Smart AP
Number of Radios	2
Number of Antennas	8 RP-SMA External
Peak Antenna Gain	3 dBi for 2.4 GHz, 3 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.851
Frequency of Radio 1	2.4 GHz b/g/n (4x4:4 stream), 20/40 Mhz (64 QAM)
Frequency of Radio 2	5 GHz a/n/ac (4x4:4 stream), 20/40/80 Mhz (256 QAM), MU-MIMO 3 simultanous devices
Throughput	Radio 1: up to 600 Mbps, Radio 2: up to 1.733 Gbps
Ethernet Ports	2x GE RJ45
USB Port	1х Туре А
Serial Console Port	1 RS-232 x RJ45
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3at (25.5 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	16 (14 if background scanning enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPV2, EAPVO/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	19 dBm (80 mW)*
Physical Security	Kensington Lock
Mean Time Between Failures	>30 Years
IEEE Specifications	802.11a, 802.11ac, 802.11b, 8 <mark>02.11d</mark> , 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802 <mark>.11n, 8</mark> 02.1x, 802.3af, 802.3at, 802.3az
Mounting Options	Ceiling, T-Rail and wall
Included Accessories	Ceiling, T-Rail and wall mount kit and 8 dipole antennas (AC power adaptor sold separately)
FortiPresence Capable	Yes
Wireless Mesh Capable	Yes
Modes of Operation	FortiGate or FortiCloud management
SSID Types Supported	Local-Bridge, Tunnel & Mesh (when managed by FortiGate)
FortiDeploy and FortiCloud Key	Yes
Per Radio Client Capacity	Up to 512
LED Off Mode	Yes
Onboard Security Features when	n Managed from FortiCloud
Application Control	Yes
Block Botnet	Yes
Antivirus	Yes
Intrusion Prevention	Yes
URL Filtering	Yes
FortiGuard Security Feed	Subscription available through FortiCloud

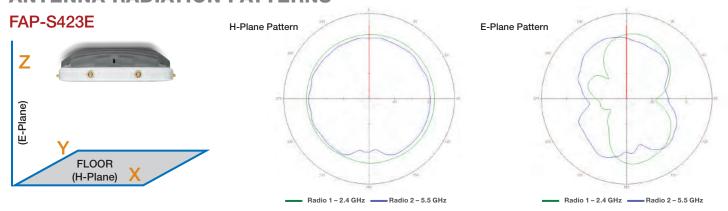
	FORTIAP S423E
Advanced 802.11 Features	
802.11ac Wave2 MU-MIMO	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check	Yes
(LDPC) Encoding	
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU	Yes
Packet Aggregation	
MIMO Power Save	Yes
Short Guard Interval	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client	Yes
access on 2.4 and 5 GHz	
Full-time scan as	Yes
dedicated monitor	
Full-time scan with client access	No
Packet sniffer mode	Yes
Spectrum analyzer	Yes
Dimensions	
Dimensions Length x Width x Height	8.46 x 8.46 x 2.2 inches (21.5 x 21.5 x 5.6 cm)
	8.46 x 8.46 x 2.2 inches (21.5 x 21.5 x 5.6 cm) 3.35 lbs (1.52 kg)
Length x Width x Height	
Length x Width x Height Weight	3.35 lbs (1.52 kg)
Length x Width x Height Weight Package (shipping) Weight Environment	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply	3.35 lbs (1.52 kg)
Length x Width x Height Weight Package (shipping) Weight Environment	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz, 0.9A, Max output: 12V DC, 3A
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz, 0.9A, Max output: 12V DC, 3A
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption (Average / Maximum)	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption (Average / Maximum) Humidity	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C)
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C)
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input: 100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input: 100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material IP Rating	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input: 100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material IP Rating Certifications	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS Yes
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material IP Rating Certifications WiFi Alliance Certified	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS  Yes  Yes
Length x Width x Height Weight Package (shipping) Weight Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material IP Rating Certifications WiFi Alliance Certified DFS Certified Spectralink Certified	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS Yes  Yes Yes
Length x Width x Height Weight Package (shipping) Weight  Environment Power Supply Power Consumption (Average / Maximum) Humidity Operating Temperature Storage Temperature Directives UL2043 Plenum Material IP Rating Certifications WiFi Alliance Certified DFS Certified	3.35 lbs (1.52 kg) 5.31 lbs (2.41 kg)  Adapter input:100–240V, 50/60Hz,0.9A, Max output: 12V DC, 3A 22.87 W / 24 W  5–90% non condensing -4–122°F (-20–50°C) -40–158°F (-40–70°C) Low Voltage Directive • RoHS Yes  Yes Yes

 $<sup>{}^\</sup>star$  Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

	FORTIAP \$423E			
	RADIO 1		RADIO 2	
	2.4 GHz Tx	Rx	5 GHz Tx	Rx
802.11 a/g	Power (dBm)	Sensitivity (dBm)	Power (dBm)	Sensitivity (dBm)
6 Mbps	22	-94	20	-91
9 Mbps	22	-92	20	-89
12 Mbps	22	-89	20	-86
18 Mbps	22	-88	20	-85
24 Mbps	22	-83	20	-80
36 Mbps	22	-78	20 19	-75
48 Mbps	22	-77	19	-74
54 Mbps	19	-76	18	-73
B02.11HT20				
MSC 0/8/16 (BPSK)	22	-91	20	-89
MSC 1/9/17 (QPSK)	21	-89	19	-87
MSC 2/10/18 (QPSK)	20	-86	19	-84
MSC 3/11/19 (16-QAM)	19	-85	18	-83
MSC 4/12/20 (16-QAM)	19	-80	17	-78
MSC 5/13/21 (64-QAM)	18	-75	17	-73
MSC 6/14/22 (64-QAM)	18	-74	17	-72
MSC 7/15/23 (64-QAM)	18	-73	17	-71
B02.11HT40				
MSC 0/8/16 (BPSK)	21	-89	20	-86
MSC 1/9/17 (QPSK)	20	-87	19	-84
MSC 2/10/18 (QPSK)	20	-84	19	-81
MSC 3/11/19 (16-QAM)	19	-83	19 18	-80
MSC 4/12/20 (16-QAM)	19	-78	18	-75
MSC 5/13/21 (64-QAM)	18	-73	17	-70
MSC 6/14/22 (64-QAM)	18	-72	17 17 17	-69
MSC 7/15/23 (64-QAM)	18	-71	17	-68
MSC 8/16/24 (256-QAM)			14	-65
MSC 9/17/25 (256-QAM)			14	-63
802.11 HT80				
MSC 0 (BPSK)			18	-83
MSC 1 (QPSK)			17	-80
VISC 2 (QPSK)			17	-78
MSC 3 (16-QAM)			16	-75
MSC 4 (16-QAM)			16	-75 -73
MSC 5 (64-QAM)		<u></u>	15	-72
MSC 6 (64-QAM)			15	-70
MSC 7 (64-QAM)			15	-69
MSC 8 (256-QAM)			15	-65
MSC 9 (256-QAM)			15	-59

Maximum capability of the hardware provided (Excluding antenna gain)

### **ANTENNA RADIATION PATTERNS**



#### FortiAP S422E

The FAP-422E is our high-density 802.11ac Wave 2 outdoor access point. This enterprise class access point is ideal for large high-density outdoor environments such as an outside office building or recreation area. It supports MU-MiMO giving excellent performance throughput and the ability to support 3 simultaneous devices.



802.11ac Wave 2 | Dual Radio 2.4 and 5 GHz | 8 External Antennas



Up to 800 + 1,733 Mbps



### **SPECIFICATIONS**

	FORTIAP S422E
Hardware	
Hardware Type	Outdoor Smart AP
Number of Radios	2
Number of Antennas	8 N-type External
Peak Antenna Gain	
	5 dBi for 2.4 GHz, 7 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.851
Frequency of Radio 1	2.4 GHz b/g/n (4x4:4 stream), 20/40 Mhz (64 QAM)
Frequency of Radio 2	5 GHz a/n/ac (4x4:4 stream), 20/40/80 Mhz (256 QAM),
Troquency of Fluuro 2	MU-MIMO 3 simultanous devices
Throughput	Radio 1: up to 800 Mbps, Radio 2: up to 1.733 Gbps
Ethernet Ports	2x GE RJ45
USB Port	
Serial Console Port	1 RS-232 x RJ45
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3at (25.5 W
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
	······································
Simultaneous SSIDs	16 (14 if background scanning enabled)
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
OSCI/DEVICE Addictitication	Captive Portal, MAC blacklist & whitelist
Maximum Tx Power	19 dBm (80 mW)*
Physical Security	Kensington Lock
Mean Time Between Failures	>30 Years
IEEE Specifications	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i
.,	802.11j, 802.11n, 802.1x, 802.3af, 802.11ac, 802.3at, 802.3az
Mounting Options	Wall or Pole Mounting
Included Accessories	8x Dipole Antennas, power adapter and proprietary injector,
	pole mount bracket, grounding cable, surge protector (GPI-SGPT)**
FortiPresence Capable	Yes
Wireless Mesh Capable	Yes
Modes of Operation	FortiGate or FortiCloud management
SSID Types Supported	Local-Bridge, Tunnel & Mesh (when managed by FortiGate)
FortiDeploy and FortiCloud Key	Yes
Per Radio Client Capacity	Up to 512
LED Off Mode	Yes
Onboard Security Features when	n Managed from FortiCloud
Application Control	Yes
Block Botnet	Yes
Antivirus	Yes
Intrusion Prevention	Yes
URL Filtering	Yes
FortiGuard Security Feed	Subscription available through FortiCloud

	FORTIAP S422E
Advanced 802.11 Features	
802.11ac Wave2 MU-MIMO	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check	Yes
(LDPC) Encoding	
Maximum Likelihood	Yes
Demodulation (MLD)	\/
Maximum Ratio Combining (MRC)  A-MPDU and A-MSDU	Yes Yes
Packet Aggregation	165
MIMO Power Save	Yes
Short Guard Interval	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client	Yes
access on 2.4 and 5 GHz	
Full-time scan as	Yes
dedicated monitor	
Full-time scan with client access	No
Packet sniffer mode	Yes
Spectrum analyzer	Yes
Dimensions	
Length x Width x Height	8.23 x 8.23 x 2.36 inches (20.9 x 20.9 x 6.0 cm)
Weight	4.08 lbs (1.85 kg)
Package (shipping) Weight	11.42 lbs (5.18 kg)
Environment	
Power Supply	PoE input: 48V DV, 0.8A
Power Consumption	18.83 W / 22 W
(Average / Maximum) Humidity	5–95% non condensing
Operating Temperature	-40-140°F (-40-60°C)
Storage Temperature	-40–158°F (-40–70°C)
Directives	Low Voltage Directive   RoHS
UL2043 Plenum Material	Yes
IP Rating	IP67
Surge Protection Built In	Yes
Certifications	
WiFi Alliance Certified	Yes
DFS Certified	Yes
* Frequency selection and power may be res	stricted to abide by regional regulatory compliance laws.

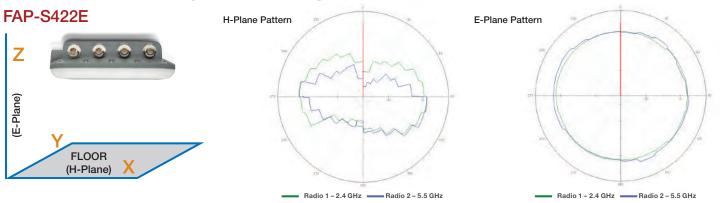
<sup>\*</sup> Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

<sup>\*\*</sup> GPI-SGPT consists of a surge protector box and a surge protected power injector. It is not available for order separately.

	FORTIAP S422E				
	RADIO 1		RADIO 2		
	2.4 GHz	B.	5 GHz		
802.11 a/g	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)	
6 Mbps	21	-94	20	-90	
9 Mbps	21	-92	20	-89	
12 Mbps	21	-89	20	-86	
18 Mbps	21	-88	20	-85	
24 Mbps	21	-83	20	-80	
36 Mbps	21	-78	20 18	-75	
48 Mbps	21	-77	18	-74	
54 Mbps	19	-76	17	-73	
B02.11 HT20					
MSC 0/8/16 (BPSK)	19	-91	19	-90	
MSC 1/9/17 (QPSK)	19	-89	19	-87	
MSC 2/10/18 (QPSK)	19	-86	19	-84	
MSC 3/11/19 (16-QAM)	19	-85	19 18	-82	
MSC 4/12/20 (16-QAM)	19	-80	17	-77	
MSC 5/13/21 (64-QAM)	18	-75	16	-72	
MSC 6/14/22 (64-QAM)	18	-74	16	-71	
MSC 7/15/23 (64-QAM)	18	-73	16	-70	
802.11 HT40					
MSC 0/8/16 (BPSK)	19	-89	19	-87	
MSC 1/9/17 (QPSK)	19	-87	18	-85	
MSC 2/10/18 (QPSK)	19	-84	18	-82	
MSC 3/11/19 (16-QAM)	18	-83	17	-81	
MSC 4/12/20 (16-QAM)	18	-78	17	-76	
MSC 5/13/21 (64-QAM)	17	-73	17	-71	
MSC 6/14/22 (64-QAM)	17	-72	17	-70	
MSC 7/15/23 (64-QAM)	17	-71	17	-69	
MSC 8/16/24 (256-QAM)			13	-63	
MSC 9/17/25 (256-QAM)		······	13	-62	
B02.11 HT80					
MSC 0 (BPSK)			18	-84	
MSC 1 (QPSK)			17	-81	
MSC 2 (QPSK)			17	-79	
MSC 3 (16-QAM)			16	-76	
MSC 4 (16-QAM)			16		
MSC 5 (64-QAM)		<u></u>	15	-74 -73	
MSC 6 (64-QAM)			15	-71	
MSC 7 (64-QAM)			15	-70	
MSC 8 (256-QAM)			14	-66	
MSC 9 (256-QAM)			14	-59	

Maximum capability of the hardware provided (Excluding antenna gain)

# **ANTENNA RADIATION PATTERNS**



# **PERFORMANCE MATRIX**

Doggrintor	Data Ctrooms	VH	Γ20	VHT	Γ40	VH1	T80
Descriptor	Data Streams	Normal GI	Short GI	Normal GI	Short GI	Normal GI	Short G
MCS 0	1	6.5	7.2	13.5	15	29.3	32.5
MCS 1	1	13	14.4	27	30	58.5	65.0
MCS 2	1	19.5	21.7	40.5	45	87.8	97.5
MCS 3	1	26	28.9	54	60	117.0	130.0
MCS 4	1	39	43.3	81	90	175.5	195.0
MCS 5	1	52	57.8	108	120	234.0	260.0
MCS 6	1	58.5	65	121.5	135	263.3	292.5
MCS 7	1	65	72.2	135	150	292.5	325.0
MCS 8	1	78.0	86.7	162.0	180.0	351.0	390.0
MCS 9	1	NA	NA	180.0	200.0	390.0	433.3
		10.1	.,,,	100.0	200.0	000.0	100.0
MCS 0	2	13	14.4	27	30	58.5	65.0
MCS 1		26	28.9	54	60	117.0	130.0
MCS 2	2	39	43.3	81	90	175.5	195.0
MCS 3	2	52	57.8	108	120	234.0	260.0
MCS 4	2	78	86.7	162	180	351.0	390.0
MCS 5	2	104	115.6	216	240	468.0	520.0
MCS 6	2	117	130	243	270	526.5	585.0
MCS 7	2	130	144.4	270	300	585.0	650.0
MCS 8	2	156.0	173.3	324.0	360.0	702.0	780.0
MCS 9	2	NA	NA	360.0	400.0	780.0	866.7
IVICO 9	۷	INA	IVA	300.0	400.0	700.0	000.7
MCS 0	3	19.5	21.7	40.5	45	87.8	97.5
MCS 1	3	39	43.3	81	90	175.5	195.0
MCS 2	3	58.5	65	121.5	135	263.3	292.5
MCS 3	3	78	86.7	162	180	351.0	390.0
MCS 4	3	117	130	243	270	526.5	585.0
MCS 5	3	156	173.3	324	360	702.0	780.0
MCS 6	3	175.5	195	364.5	405	NA	NA
MCS 7	3	195	216.7	405	450	877.5	975.0
MCS 8	3	234.0	260.0	486.0	540.0	1053.0	1170.0
MCS 9	3	260.0	288.9	540.0	600.0	1170.0	1300.0
		200.0	20010	/ / / / / / / / / / / / / / / / / / / /	000.0		100010
MCS 0	4	26	28.9	54	60	117	130
MCS 1	4	52	57.8	108	120	234	260
MCS 2	4	78	86.7	162	180	351	390
MCS 3	4	104	115.6	216	240	468	520
MCS 4	4	156	173.3	324	360	702	780
MCS 5	4	208	231.1	432	480	936	1040
MCS 6	4	234	260	486	540	1053	1170
MCS 7	4	260	288.9	540	600	1170	1300
MCS 8		312	346.7	648	720	1404	1560
MCS 9	4 4	NA		720	800	1560	1733.3

# **PERFORMANCE MATRIX**

December 1	Cnatial Streams	HT	20	HT4	10
Descriptor	Spatial Streams	Normal GI	Short GI	Normal GI	Short GI
MCS 0	1	6.5	7.2	13.5	15
MCS 1	1	13	14.4	27	30
MCS 2	1	19.5	21.7	40.5	45
MCS 3	1	26	28.9	54	60
MCS 4	1	39	43.3	81	90
MCS 5	1	52	57.8	108	120
MCS 6	1	58.5	65	121.5	135
MCS 7	1	65	72.2	135	150
MCS8	2	13	14.4	27	30
MCS9	2	26	28.9	54	60 60
MCS10	2	39	43.3	81	an
MCS11	2	52	57.8	108	120
MCS12	2	78	86.7	162	180
MCS13	2	104	115.6	216	240
MCS14	2	117	130	243	270
MCS15	2	130	144.4	270	300
MCS16	3	19.5	21.7	40.5	45
MCS17	3	39	43.3	81	90
MCS18	3	58.5	65	121.5	135
MCS19	3	78	86.7	162	180
MCS20	3	117	130	243	270
MCS21	3	156	173.3	324	360
MCS22	3	175.5	195	364.5	405
MCS23	3	195	216.7	405	450

# **UTM PERFORMANCE SUMMARY**

	FAP-S42XE	FAP-S32XC	FAP-S22XE
Spirent Test Centre Results			
AV HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	150 Mbps	110 Mbps	55 Mbps
AV HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	150 Mbps	110 Mbps	55 Mbps
IPS HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	220 Mbps	120 Mbps	100 Mbps
IPS HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	220 Mbps	120 Mbps	100 Mbps
Botnet HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	595 Mbps	540 Mbps	310 Mbps
Botnet HTTP 44K Throughput on 5G 80MHz Radio in Brid <mark>ge m</mark> ode – Uplink	455 Mbps	355 Mbps	170 Mbps
Web Filter HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	240 Mbps	135 Mbps	70 Mbps
Web Filter HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	240 Mbps	135 Mbps	70 Mbps
Application Control HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	455 Mbps	455 Mbps	300 Mbps
Application Control HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	440 Mbps	340 Mbps	165 Mbps
All UTM HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	95 Mbps	60 Mbps	35 Mbps
All UTM HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	95 Mbps	60 Mbps	35 Mbps
No UTM HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Downlink	1,050 Mbps	720 Mbps	345 Mbps
No UTM HTTP 44K Throughput on 5G 80MHz Radio in Bridge mode – Uplink	705 Mbps	565 Mbps	245 Mbps

Specifications for other series are not available

#### ORDER INFORMATION

Product	SKU	Description
FortiAP S221E	FAP-S221E	Indoor Wireless AP — 2x GE RJ45 ports, 802.11 a/b/g/n/ac Wave 2, dual concurrent dual band (2.4 GHz/5 GHz), 2x2 MU-MIMO, ceiling/wall mount kit included, power adapter not included.
	FC-10-PS221-311-02-DD	8x5 FortiCare Contract
	FC-10-PS221-247-02-DD	24x7 FortiCare Contract
FortiAP S223E	FAP-S223E	Indoor Wireless AP — 2x GE RJ45 ports, 802.11 a/b/g/n/ac Wave 2, dual concurrent dual band (2.4 GHz/5 GHz), 2x2 MU-MIMO, external antennas, ceiling/wall mount kit included, power adapter not included.
	FC-10-PS223-311-02-DD	8x5 FortiCare Contract
	FC-10-PS223-247-02-DD	24x7 FortiCare Contract
FortiAP S421E	FAP-S421E	Indoor Cloud or FortiGate Managed Wireless AP — 2x GE RJ45 ports, 802.11 a/b/g/n/ac Wave 2, dual concurrent dual band (2.4 GHz/5 GHz), 4x4 MIMO, ceiling/wall mount kit included, power adapter not included.
	FC-10-PS421-905-02-12	FortiAP-S Security and Support Bundle (24x7 FortiCare plus IPS, App Control, AV and Web Filtering)
	FC-10-PS421-311-02-DD	8x5 FortiCare Contract
	FC-10-PS421-247-02-DD	24x7 FortiCare Contract
FortiAP S422E	FAP-S422E	Outdoor Cloud or FortiGate Managed Wireless AP — 2x GE RJ45 ports, 802.11 a/b/g/n/ac Wave 2, dual concurrent dual band (2.4 GHz/5 GHz), 4x4 MIMO, external antennas, ceiling/wall mount kit included. Proprietary PoE injector with AC power adapter included.
	FC-10-PS422-905-02-12	FortiAP-S Security and Support Bundle (24x7 FortiCare plus IPS, App Control, AV and Web Filtering)
	FC-10-PS422-311-02-DD	8x5 FortiCare Contract
	FC-10-PS422-247-02-DD	24x7 FortiCare Contract
FortiAP S423E	FAP-S423E	Indoor Cloud or FortiGate Managed Wireless AP — 2x GE RJ45 ports, 802.11 a/b/g/n/ac Wave 2, dual concurrent dual band (2.4 GHz/5 GHz), 4x4 MIMO. Ceiling, T-Rail and wall mount kit, antennas included. Power adapter not included.
	FC-10-PS423-905-02-12	FortiAP-S Security and Support Bundle (24x7 FortiCare plus IPS, App Control, AV and Web Filtering)
	FC-10-PS423-311-02-DD	8x5 FortiCare Contract
	FC-10-PS423-247-02-DD	24x7 FortiCare Contract
Gigabit PoE Injector	GPI-115	1-Port Gigabit PoE Power Injector, 802.3af 15.4 <mark>W, 1</mark> 0/100/1000.
	GPI-130	1-Port Gigabit PoE Power Injector, 802.3at up to 30 W.
Power Adapter	SP-FAP400-PA	AC Power Adapter for FAP-U421EV, FAP-U423EV, FAP- <mark>S421E, FA</mark> P-S423E, FAP-421E and FAP-423E.
FortiCloud FortiAP FAP-S Enterprise Management License	FC-10-90APS-173-02-DD	FortiAP-S Enterprise License adds/includes a subscription to FortiGuard services, Bonjour relaying, intra-SSID isolation of specific clients, 1 year log retention and FortiCare 8x5 Support.

REGION/COUNTRY SKU SUFFIX*							
Americas-FCC	China	India	Europe ETSI	Indonesia	International	Japan	Korea
-A	-C	-D	-E	-F	-	-J	-K
Non-FFCA	Russia	Singapore	Taiwan	Ukraine	Vietnam, Thailand	World 2.4G	Egypt
-N	-P	-S	-Т	-U	-V	-W	-Y



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