FortiAP™ Series







FortiGate, FortiManagement Cloud, or SASE-managed access points

FortiAP™ access points are managed centrally by the integrated WLAN controller of any FortiGate® security appliance or through the FortiManagement Cloud provisioning and management portal. With the integration of the wireless controller functionality into the market-leading FortiGate appliance, these APs are perfect for campus and branch deployments. Fortinet's Security Fabric enables you to easily manage wired and wireless security from a Single-pane-of-glass management console and protects your network from the latest security threats.

Highlights

- Unified management console simplifies operations, ensuring consistency in effective policy enforcement and compliance
- Built-in foundation for zero-trust network access (ZTNA) and secure access service edge (SASE), allowing you the flexibility to easily deploy microbranches with the security you need at the edge of your network
- Wireless LAN security done right, from the leader in network security. Integrated Firewall, IPS, Application Control, and Web Filter protect the wireless LAN from the latest security threats
- Protects the network from advanced wireless threats and satisfies industry compliance such as PCI DSS

INDOOR

AP MODEL	WI-FI GENERATION	DESCRIPTION	BLE SUPPORT	USB SUPPORT	POE BUDGET	LIGHTWEIGHT UTP
FAP-441K	Wi-Fi 7	4×4 Indoor quad-radio 11be 6Ghz Capable APs	5.1	✓	802.3bt	✓
FAP-443K	Wi-Fi 7	4×4 Indoor quad-radio 11be 6Ghz Capable APs	5.1	✓	802.3bt	✓
FAP-241K	Wi-Fi 7	2×2 Indoor quad-radio 11be 6Ghz Capable APs	5.1	✓	802.3bt	✓
FAP-243K	Wi-Fi 7	2×2 Indoor quad-radio 11be 6Ghz Capable APs	5.1	✓	802.3bt	✓
FAP-231K	Wi-Fi 7	2×2 Indoor Tri-radio 11be 6Ghz Capable APs	5.2	—	802.3at	—
FAP-23JK	Wi-Fi 7	2×2 Indoor Tri-radio 11be 6Ghz Desktop , LAN, PSE Capable APs	5.2	—	802.3bt	✓
FAP-831F	Wi-Fi 6	4×4 Indoor Tri-radio 11ax APs	5.2	✓	802.3at	—
FAP-23JF	Wi-Fi 6	2×2 Indoor Tri-radio 11ax Desktop, LAN, PSE Capable APs	5.2	✓	802.3at	—
FAP-221K	Wi-Fi 7	2×2 Indoor dual-radio	5.2	—	802.3at	—

OUTDOOR

AP MODEL	WI-FI GENERATION	DESCRIPTION	BLE SUPPORT	C1D2/ATEX	POE BUDGET	LIGHTWEIGHT UTP
FAP-244K	Wi-Fi 7	2×2 outdoor quad-radio 11be 6Ghz , SFP+ Capable APs	5.1	In Process	802.3bt	✓
FAP-222KL	Wi-Fi 7	2×2 outdoor Dual-radio 11be, LoRaWAN, LTE, PSE Capable APs	NA	In Process	802.3bt	—
FAP-432G	Wi-Fi 6E	4×4 Ruggedized Tri-radio outdoor 11ax 6Ghz/ Dual 5Ghz Capable APs	5.1	In Process	802.3bt	✓
FAP-234G	Wi-Fi 6E	2×2 Ruggedized Tri-radio outdoor 11ax 6Ghz/ Dual 5Ghz Capable APs	5.1	C1D2/ ATEX	802.3at	✓
FAP-432FR	Wi-Fi 6	4×4 Ruggedized Tri-radio outdoor 11ax APs	5.2	C1D2	802.3at	—

Use Cases

FortiAPs allow for a versatile collection of installation topologies with options to fit any enterprise.



Campus

A single building with multiple floors, or a corporate or education campus with a group of large buildings.

- High-capacity designs including Dual 5GHz and tri-band with Wi-Fi 6E allow a maximal number of client devices to attach to the network at the same time without over-air congestion
- Complete NOC functionality with network visibility and AIOps simplify a complex network deployment into a solution manageable by IT teams of any size



Branch Office / SD-Branch

A highly distributed number of small sites, often with no on-site IT.

- Built in NAC functions* allow secure onboarding of devices at remote locations where IT doesn't have reliable visibility
- Management orchestration with zero-touch deployment allows for quick and easy rollouts without the need for skilled installers at each site



Micro Branch

Ultra small sites that still fall under IT's responsibility.

- Can act as a SASE endpoint as a foundation for zero-trust network access (ZTNA)
- Simple management and provisioning through FortiSASE interface



Remote Workers

A remote AP installed at a worker's home or at micro-branch office space.

- Split tunneling allows local traffic to remain local while sending other traffic to the data center for inspection when needed
- Desktop mounting options for wall-plate models allow the use of Ethernet as well as Wi-Fi connectivity while leveraging the same secure tunnel



SMB

Single site or small collection of sites with limited IT resources.

- Built-in NAC functions* bring security to the wireless network with no need to install and manage additional products
- Network and security convergence decreases management overhead while keeping the network secure

*FortiGate-managed installations only.

Highlights

FortiAP 443K and 441K

These high performance enterprise class Wi-Fi 7 indoor APs provide four radios and four spatial streams. These access points support the 6 GHz band and have 10 Gigabit Ethernet ports. The APs can provide 24/7 scanning across all bands while still providing access on 2.4 GHz, 5 GHz, and 6 GHz bands. The integrated BLE/ ZigBee radio can be used for beacons and locationing applications.

Note: For FAP-443K, use of the 6GHz band is subject to regional regulatory authority approval.

Wi-Fi 7 | Four-Radio 2.4GHz + 5GHz + 6GHz + Scan | 10 Internal Antennas / (4 External RPSMA dual band Connectors + 4 External RPSMA 6Ghz connectors + 2 Tri-band RPSMA connectors) + 1 BLE/Zigbee internal antenna

4×4 MU-MIMO | Up to 1.148 Gbps + 8.648 Gbps + 11.53 Gbps



FAP-441K



FAP-443K

Specifications

	FortiAP 441K	FortiAP 443K
Hardware		
Type	Indoor AP	
Number of Radios	4 + 1 BLE	
Number of Antennas	Internal: x4 dual band WIFI + x4 6GHz WIFI + x2 Tri-band scanning + x1 2.4GHz BLE/ ZigBee + x1 GPS	External: x4 dual band WIFI + x4 6GHz WIFI + x2 Tri-band scanning Internal: x1 2.4GHz BLE/ ZigBee + x1 GPS
Antenna Type Support		RP-SMA (10 total): Dual Band Antenna (4) 6Ghz Antenna (4) Triband Antenna (2)
Antenna Type and Peak Gain	Omni Directional Antenna Dual band antenna: 4.0 dBi for 2.4GHz 5.6 dBi for 5 GHz 6GHz antenna: 5.4dBi for 6GHz band Tri-band antenna: 4.0 dBi for 2.4 GHz, 6.0 dBi for 5 GHz and 5.7 dBi for 6 GHz band BLE antenna: 5.1 dBi for 2.4GHz GPS active antenna: 2.2 dBi antenna	Omni Directional Antenna Dual band antenna: 5.0 dBi for 2.4GHz 5.0 dBi for 5 GHz 6GHz antenna: 5.8dBi for 6GHz band Tri-band antenna: 5.0 dBi for 2.4 GHz, 5.0 dBi for 5 GHz and 4.0 dBi for 6 GHz band BLE antenna: 5.1 dBi for 2.4GHz GPS active antenna: 2.2 dBi antenna
Frequency Bands (GHz)	· ISM 2.4-2.484 GHz · U-NII-1 5.15-5.25 GHz · U-NII-2A 5.25-5.35 GHz · U-NII-2C 5.47-5.725 GHz · U-NII-3 5.725-5.85 GHz	· U-NII-4 5.850-5.925 GHz · U-NII-5 5.925-6.425 GHz · U-NII-6 6.425-6.525 GHz · U-NII-7 6.525-6.875 GHz · U-NII-8 6.875-7.125 GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 4×4 Service	
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160/240MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 4×4 Service	
Radio 3 Capabilities	Frequency band: 6.0GHz UNII-5 to UNII-8 Channel width: 20/40/80/160/320MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 4×4 Service	
Radio 4 Capabilities	Frequency band: 2.4/5.0/6.0GHz Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Scanning	
Maximum Data Rate	2.4GHz band: up to 1.148 Gbps 5.0GHz band: up to 8.648 Gbps 6.0GHz band: up to 11.530 Gbps	
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power	
Trusted Platform Module (TPM)	Yes	Yes
GNSS	. Supported Bands . Default constallations . Number of Tracking Channels . Number of Concurrent GNSS . SBAS . Sensitivity (@ Default Constallations)	GPS L1 C/A, QZSS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BDS B1I : 1561.098 MHz, Galileo E1: 1575.42 MHz GPS + GLONASS + BDS + Galileo + QZSS 47 5 WAAS, EGNOS, MSAS and GAGAN -147dBm
Interfaces	x2 100M/1000M/2.5G/5.0G/10G Multigigabit Ethernet (RJ45) x1 Type 3.0 USB at 4.5W, x1 RS-232 RJ45 Serial Port	
Power over Ethernet (PoE)	LAN1:802.3bt, LAN2:802.3bt	
Hit-less PoE Failover	Yes	

	FortiAP 441K	FortiAP 443K
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)	
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP	
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist	
Maximum Tx Power (Conducted)	2.4GHz band: 29 dBm / 794 mW (4 chains combined)* 5.0GHz band: 27.8 dBm / 602 mW (4 chains combined)* 6.0GHz band: 23 dBm / 200 mW (4 chains combined @ 160MHz BW)*	
Kensington Lock	Yes	
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11mc, 802.1X, 802.3ad, 802.3at, 802.3bt, 802.3az, 802.1Q, 802.11u, 802.11w, 802.3bz	
SSID Types Supported	Local-Bridge, Mesh, and Tunnel	
IPv6 Support	Yes	—
Per Radio Client Capacity	Up to 512 clients per radio (Radio1, Radio2 and Radio3)	
Cellular Co-existence	Yes	
LED Off Mode	Yes	
Advanced 802.11 Features		
OFDMA	Yes	
Spatial Reuse (BSS Coloring)	Yes	
UL MU-MIMO	Yes	
DL- MU-MIMO	Yes	
Enhanced Target Wake Time (TWT)	Yes	
ZeroWait DFS	Yes	
Onboard Security Functions		
UTP Capable	Yes	
UTP Features	Application Control, Web Filtering	
Wireless Monitoring Capabilities		
Rogue Scan radio modes	Background, Dedicated	
WIPS / WIDS radio modes	Background, Dedicated (recommended)	
Packet Sniffer Mode	Yes	
Spectrum Analyzer	Yes	
Dimensions		
Length x Width x Height	9.84 × 9.84 × 2.26 inches (250 × 250 × 57.5 mm)	
Weight	4.36 lbs (1.98 kg)	
Package (shipping) Weight	6.9 lbs (3.13 kg)	
Mounting Options	Ceiling, T-Rail, and Wall	
Included Accessories	Standard Mounting Kit for Ceiling, T-Rail, and Wall	
Environment		
CPU/RAM	Quad-core ARM Cortex-A73 2.2GHz / 2 GB	
Power Supply	GPI-145 or SP-FAP250-PA-10	
Power Consumption (Max)	41.7 W	
PoE Mode	Full - 802.3bt or 2×802.3at or DC : Tx Power - Maximum (all radios); # of Chains - 4×4 ; USB - Enabled High - 802.3at or 2×802.3af : R1(2.4GHz), R2(5GHz) and R3 (6GHz) Operation in Low Tx Power 17 dBm, # of Chains - 2×2; R4 operational ; USB - Disabled	
Humidity	5% to 90% non-condensing	
Operating/Storage Temp.	32°F to 122°F (0°C to 50°C) / -22°F to 158°F (-30°C to 70°C)	
Directives	Low Voltage Directive * RoHS	
UL2043 Plenum Material	Yes	
Mean Time Between Failures	>10 Years	
IP Rating	N/A	
Surge Protection Built In	Yes	
Certifications		
Wi-Fi7 Certified	Certified	
DFS	Europe, FCC, Japan, Australia, Brazil, Taiwan, S. Korea, India	Europe, FCC, Australia, Brazil, Taiwan, S. Korea, India
Warranty		
Limited Lifetime Warranty	Yes	

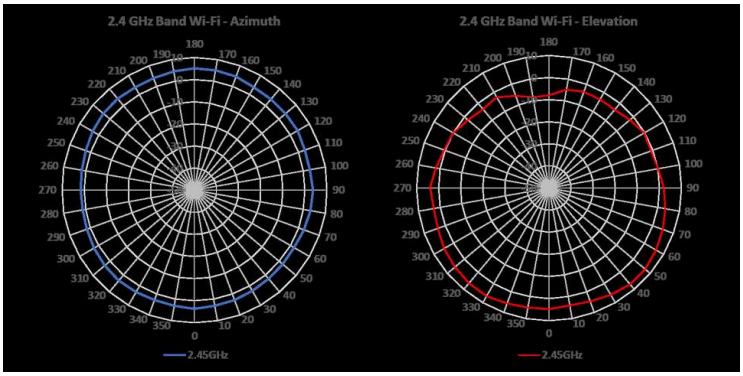
* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

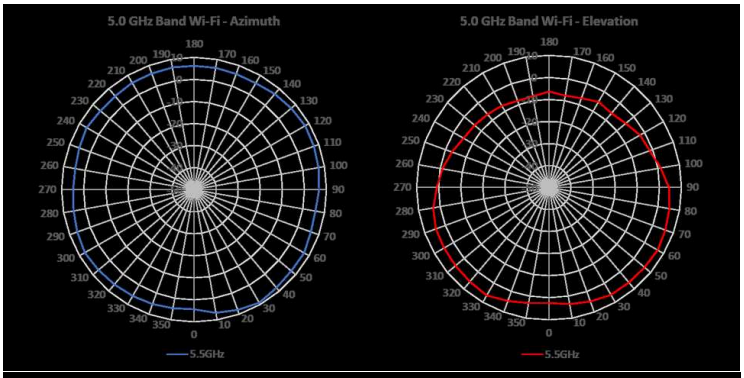
RF Rx/Tx Performance Table

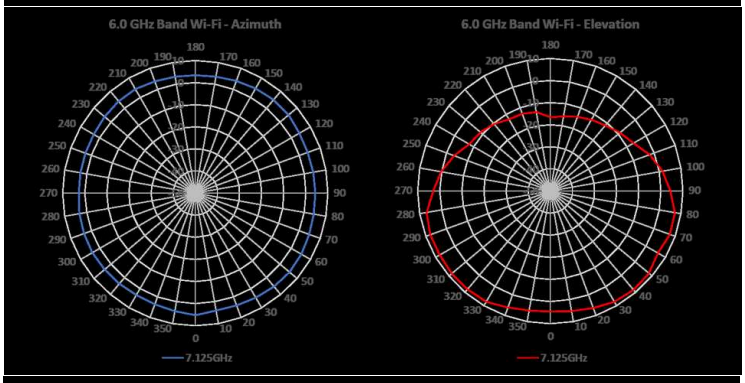
FORTIAP 441K / 443K						
	2.4 GHz Band		5.0 GHz Band		6.0 GHz Band	
Data rate	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
	802.11b					
1 Mbps	23	-96				
11 Mbps	23	-99				
	802.11g		802.11a			
6 Mbps	23	-94	23	-90		
54 Mbps	22	-77	20	-73		
	802.11n HT20					
MCS0	23	-94	23	-90		
MCS7	21	-77	20	-72		
	802.11n HT40					
MCS0	23	-93	23	-89		
MCS7	21	-74	20	-70		
	802.11ac VHT20					
MCS0	23	-95	22	-88		
MCS9	21	-73	19	-69		
	802.11ac VHT40					
MCS0	22	-92	22	-87		
MCS9	19	-70	19	-64		
	802.11ac VHT80					
MCS0			21	-85		
MCS9			18	-62		
	802.11ax HE20		802.11ax HE20 / 802.11be EHT20			
MCS0	23	-92	22	-88	22	-87
MCS11	18	-70	19	-65	19	-65
	802.11ax HE40		802.11ax HE40 / 802.11be EHT40			
MCS0	22	-90	22	-87	20	-85
MCS11	17	-61	19	-63	18	-62
			802.11ax HE80 / 802.11be EHT80			
MCS0			21	-85	19	-82
MCS13			18	-61	17	-59
			802.11be EHT160		802.11ax HE80 / 802.11be EHT80	
MCS0			19	-79	18	-81
MCS13			17	-56	16	-58
			802.11be EHT240			
MCS0			17	-79		
MCS13			16	-56		
					802.11be EHT320	
MCS0					19	-80
MCS13					15	-58

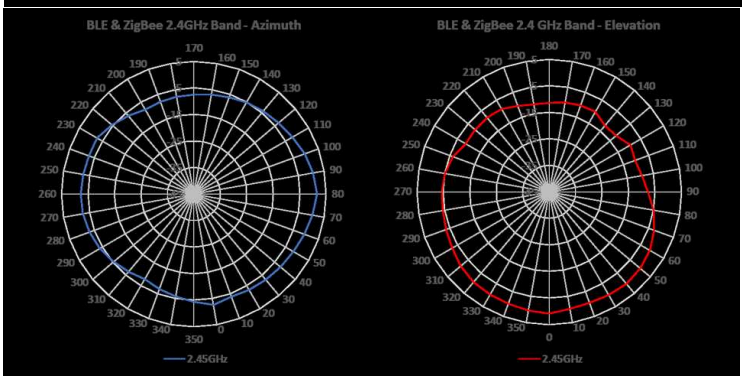
Antenna Radiation Patterns

FAP-441K

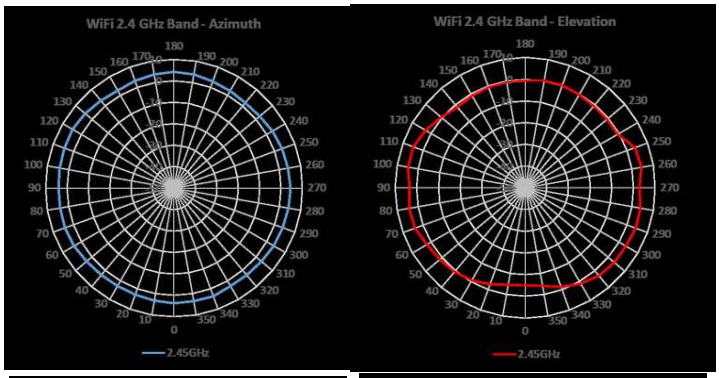


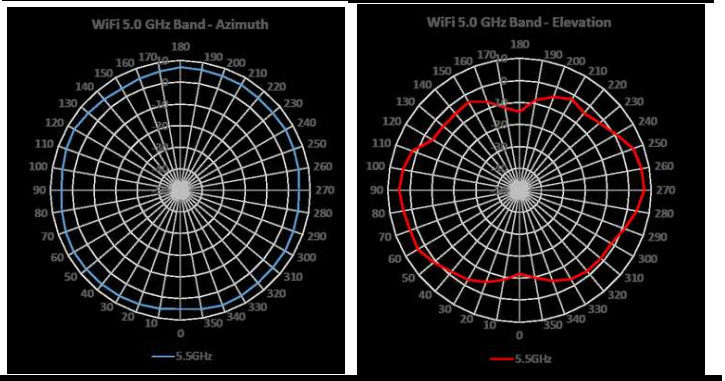


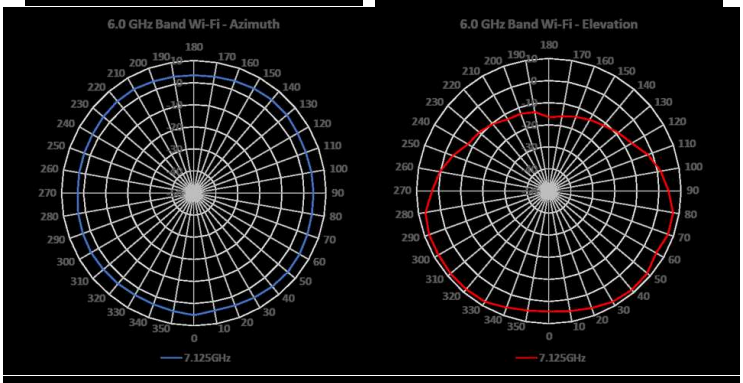


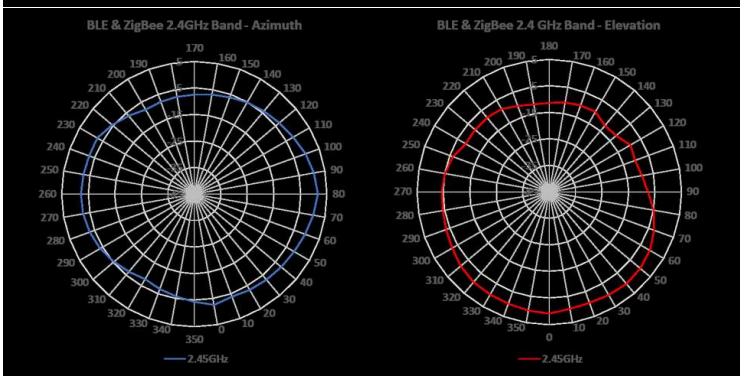


FAP-443K









Highlights

FortiAP 241K and 243K

These enterprise class Wi-Fi 7 indoor APs provide four radios and two spatial streams. These access points support the 6 GHz band and have one 10 Gigabit Ethernet and one 1 Gigabit Ethernet port. The APs can provide 24/7 scanning across all bands while still providing access on 2.4 GHz, 5 GHz, and 6 GHz bands. The integrated BLE/ ZigBee radio can be used for beacons and locationing applications.

Note: For FAP-243K, use of the 6GHz band is subject to regional regulatory authority approval.

Four-Radio 2.4GHz + 5GHz + 6GHz + Scan | 6 Internal Antennas / (2 External RPSMA dual band Connectors + 2 Tri-band External RPSMA connectors + 2 6Ghz External RPSMA antennas) + 1 BLE/Zigbee internal antenna

2×2 MU-MIMO | Up to 688 Mbps + 4.3 Gbps + 5.76 Gbps



FAP-241K



FAP-243K

Specifications

	FortiAP 241K	FortiAP 243K
Hardware		
Type	Indoor AP	
Number of Radios	4-Radio 2.4GHz + 5.0GHz + 6GHz + Tri-band scan	
Number of Antennas	6 Internal Wi-Fi antennas: x2 Dual band + x2 6GHz band + x2 Tri-band Scanning 1 Internal 2.4GHz band BLE/ ZigBee antenna	6 External RPSMA antenna connector: x2 Dual band + x2 6GHz band + x2 Tri-band Scanning 1 Internal 2.4GHz band BLE/ZigBee antenna
Antenna Type Support		RP-SMA (6 total): Dual Band Antenna (2), 6Ghz Antenna (2), Triband Antenna (2)
Antenna Type and Peak Gain	PIFA 2.4/5GHz dual band antenna: 4.7 dBi for 2.4GHz, 5.4 dBi for 5 GHz Alford loop 6GHz antenna: 5.7 dBi for 6GHz band PIFA Tri-band antenna: 5.0 dBi for 2.4GHz, 5.7 dBi for 5.0GHz, and 5.35 dBi for 6GHz band PFA BLE antenna: 4.6 dBi for 2.4GHz	Omni Directional Dual band antenna: 4.5 dBi for 2.4GHz, 5.7 dBi for 5 GHz Omni Directional 6GHz band antenna: 5.25 dBi for 6GHz band Tr-band Omni directional antenna: 3.3 dBi for 2.4GHz, 5.6 dBi for 5GHz, and 5.3 dBi for 6GHz band PIFA BLE antenna: 5.2 dBi for 2.4GHz
Frequency Bands (GHz)	**2.4GHz Band**: ISM 2.4-2.484GHz **5.0GHz Band**: UNII-1 5.15-5.25GHz, UNII-2A 5.25-5.35GHz, UNII-2C 5.47-5.73GHz, UNII-3 5.725-5.85GHz, UNII-4 5.85-6.895GHz	**6GHz Band**: UNII-5 5.925-6.425GHz, UNII-6 6.425-6.525GHz, UNII-7 6.525-6.875GHz, UNII-8 6.875-7.125GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service	
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160/240MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service	
Radio 3 Capabilities	Frequency band: 6.0GHz UNII-5 to UNII-8 Channel width: 20/40/80/160/320MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service	
Radio 4 Capabilities	Frequency band: 2.4/5.0/6.0GHz Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Scanning	
Maximum Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 4.324 Gbps 6.0GHz band: up to 5.765 Gbps	
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power	
Trusted Platform Module (TPM)	Yes	Yes
GNSS		
Interfaces	x1 100M/1000M/2.5G/5.0G/10G Multigigabit Ethernet (RJ45) x1 10M/100M/1000M/Ethernet (RJ45) x1 Type 2.0 USB at 2.5W x1 RS-232 RJ45 Serial Port	
Power over Ethernet (PoE)	LAN1:802.3bt, LAN2: N/A	
Hit-less PoE Failover	N/A	
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)	
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPV0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP	

	FortiAP 241K	FortiAP 243K
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist	
Maximum Tx Power (Conducted)	2.4GHz band: 25 dBm/316 mW (2 chains combined)* 5.0GHz band: 26 dBm/400 mW (2 chains combined)* 6.0GHz band: 23 dBm/200 mW (2 chains combined@320MHz BW)*	
Kensington Lock	Yes	
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11mc, 802.1X, 802.3ad, 802.3at, 802.3bt, 802.3az, 802.1Q, 802.11u, 802.11w, 802.3bz	
SSID Types Supported	Local-Bridge, Mesh, and Tunnel	
Per Radio Client Capacity	Up to 512 clients per radio (Radio1, Radio2, and Radio3)	
Cellular Co-existence	Yes	
LED Off Mode	Yes	
Advanced 802.11 Features		
OFDMA	Yes	
Spatial Reuse (BSS Coloring)	Yes	
UL MU-MIMO	Yes	
DL- MU-MIMO	Yes	
Enhanced Target Wake Time (TWT)	Yes	
ZeroWait DFS	No	
Onboard Security Functions		
UTP Capable	Yes	
UTP Features	Application Control, Web Filtering	
Wireless Monitoring Capabilities		
Rogue Scan radio modes	Background, Dedicated	
WIPS / WIDS radio modes	Background, Dedicated (recommended)	
Packet Sniffer Mode	Yes	
Spectrum Analyzer	Yes	
Dimensions		
Length x Width x Height	7.48 × 7.48 × 2.01 inches (190 × 190 × 51 mm)	
Weight	2.4 lbs (1.09 kg)	2.6 lbs (1.18 kg)
Package (shipping) Weight	4.4 lbs (2.0 kg)	4.6 lbs (2.09 kg)
Mounting Options	Ceiling, T-Rail, and Wall	
Included Accessories	Standard Mounting Kit for Ceiling, T-Rail, and Wall	
Environment		
CPU/RAM	Quad-core ARM Cortex-A53 1.5GHz / 2 GB	
Power Supply	802.3bt PoE: GPI-145 or 802.3at PoE: GPI-130 with USB disabled or 12V, 3A, 36 Watt DC power supply SP-FAP400-PA-XX	
Power Consumption (Max)	26.1 W	
PoE Mode	802.3af (low mode) : R1/R2/R3 disabled, only scan supported, No USB. 802.3at (High mode) : R1/R2 Full power + R3 Low 15dBm Tx-power + scan supported, USB Supported. 802.3bt (Full mode) : All radios enabled + scan supported, USB Supported.	
Humidity	5% to 90% non-condensing	
Operating/Storage Temp.	32°F to 122°F (0°C to 50°C)/ -22°F to 158°F (-30°C to 70°C)	
Directives	Low Voltage Directive * RoHS	
UL2043 Plenum Material	Yes	
Mean Time Between Failures	>10 Years	
IP Rating	N/A	
Surge Protection Built In	Yes	
Certifications		
Wi-Fi7 Certified	Certified	
DFS	Europe, FCC, Japan, Australia, Brazil, Taiwan, India	
Warranty		
Limited Lifetime Warranty	Yes	

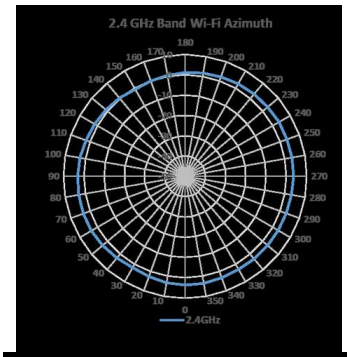
* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

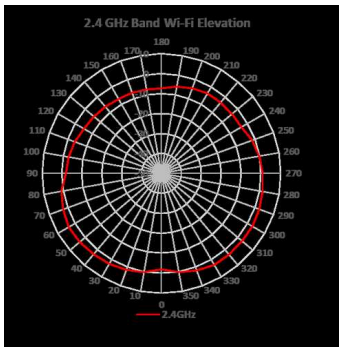
RF Rx/Tx Performance Table

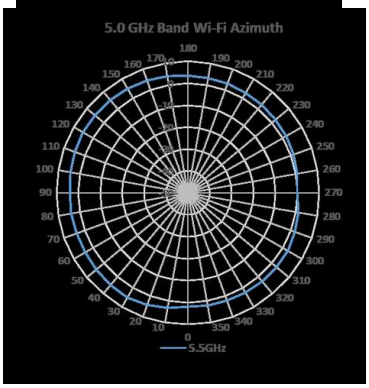
FORTIAP 241K / 243K						
	2.4 GHz Band		5.0 GHz Band		6.0 GHz Band	
Data rate	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
	802.11b					
1 Mbps	22	-99				
11 Mbps	22	-91				
	802.11g		802.11a			
6 Mbps	22	-94	22	-92		
54 Mbps	21	-78	20	-75		
	802.11n HT20					
MCS0	22	-94	22	-91		
MCS7	21	-77	20	-73		
	802.11n HT40					
MCS0	21	-93	22	-89		
MCS7	20	-74	20	-70		
	802.11ac VHT20					
MCS0	22	-95	22	-91		
MCS9	22	-73	20	-70		
	802.11ac VHT40					
MCS0	22	-92	22	-89		
MCS9	21	-70	19	-67		
	802.11ac VHT80					
MCS0			21	-85		
MCS9			19	-62		
	802.11ax/802.11be HE20					
MCS0	22	-94	21	-93	20	-94
MCS11	21	-65	19	-59	20	-60
	802.11ax/802.11be HE40					
MCS0	21	-92	21	-91	20	-91
MCS11	20	-62	18	-59	19	-56
			802.11ax HE80 / 802.11be EHT80			
MCS0			21	-88	19	-86
MCS13			18	-56	18	-58
			802.11be EHT160			
MCS0			19	-87	17	-86
MCS13			16	-55	16	-56
			802.11be EHT240			
MCS0			19	-86		
MCS13			16	-54		
					802.11be EHT360	
MCS0					17	-83
MCS13					15	-55

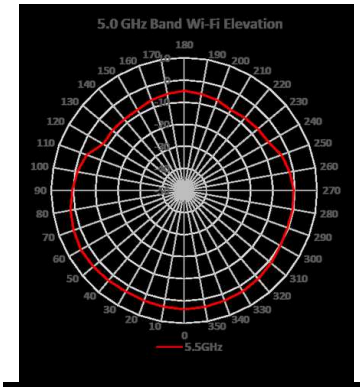
Antenna Radiation Patterns

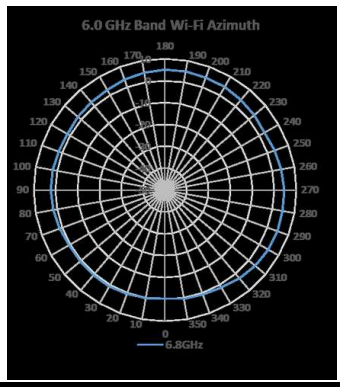
FAP-241K

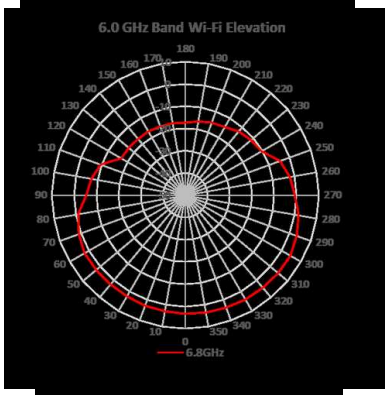


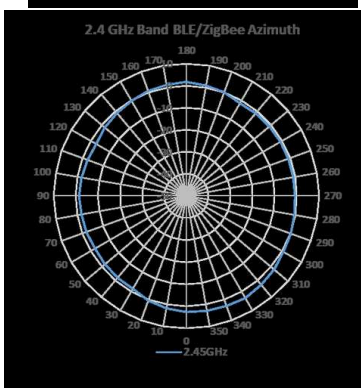


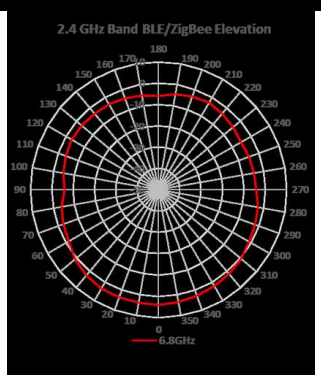




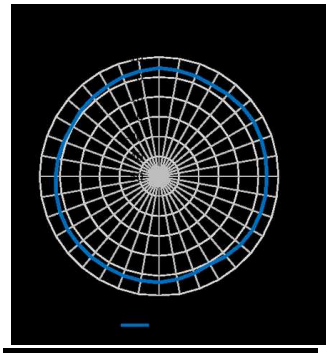


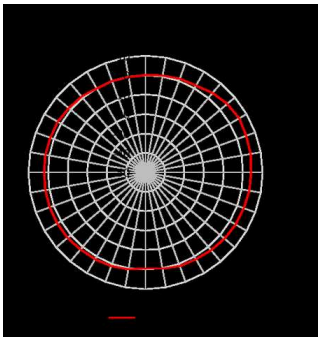


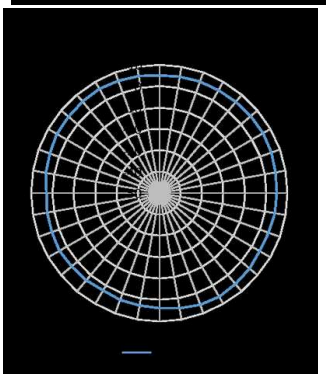


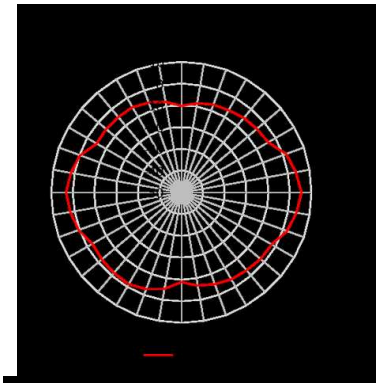


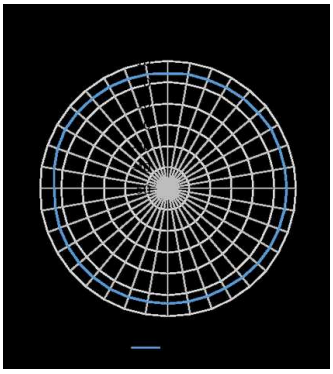
FAP-243K

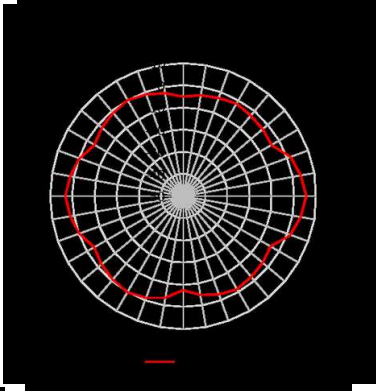


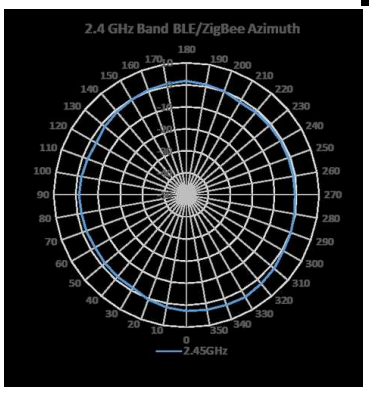


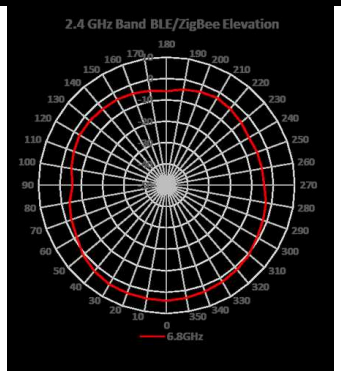












Highlights

FortiAP 231K

These enterprise class Wi-Fi 7 indoor APs provide three radios and two spatial streams. These access points support the 6 GHz band and have one 5 Gigabit Ethernet port. The APs can provide 24/7 background scanning across all bands while still providing access on 2.4 GHz, 5 GHz, and 6 GHz bands. The integrated BLE/ ZigBee radio can be used for beacons and location applications.

Note: For FAP-231K, use of the 6GHz band is subject to regional regulatory authority approval.

Three-Radio 2.4GHz + 5GHz + 6GHz | 4 Wi-Fi Antennas + 1 BLE/Zigbee antenna + 1 GPS antenna

2×2 MU-MIMO | Up to 688 Mbps + 2.88 Gbps + 5.76 Gbps data rate



FAP-231K

Specifications

	FortiAP 231K
Hardware	
Type	Indoor AP
Number of Radios	3 Wi-Fi + 1 BLE
Number of Antennas	6. x2 Dual band Wi-Fi + x2 6GHz band Wi-Fi + x1 BLE/ ZigBee antenna + x1 GPS antenna
Antenna Type Support	N/A
Antenna Type and Peak Gain	PIFA 2.4/5GHz dual band antenna: 4.2 dBi for 2.4GHz, 5.0 dBi for 5 GHz PIFA 6GHz antenna: 5.1 dBi for 6GHz band PFA BLE antenna: 3.4 dBi for 2.4GHz
Frequency Bands (GHz)	2.4GHz Band: ISM 2.4-2.484GHz 5.0GHz Band: UNII-1 5.15-5.25GHz, UNII-2A 5.25-5.35GHz, UNII-2C 5.47-5.73GHz, UNII-3 5.725-5.85GHz, UNII-4 5.85-5.895GHz 6.0GHz Band: UNII-5 5.925-6.425GHz, UNII-6-6.425-6.525GHz, UNII-7 6.525-6.875, UNII-8 6.875-7.125GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 16/64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Radio 3 Capabilities	Frequency band: 6.0GHz UNII-5 to UNII-8 Channel width: 20/40/80/160/320MHz Modulation: BPSK, QPSK, 16/64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Maximum Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 2.882 Gbps 6.0GHz band: up to 5.765 Gbps
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power
Trusted Platform Module (TPM)	Yes
GNSS	GPS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BeiDou : 1561.098 MHz, Galileo E1: 1575.42 MHz
Interfaces	x1 100M/1000M/2.5G/5.0G Multigigabit Ethernet (RJ45) x1 RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	LAN1:802.3at
Hit-less PoE Failover	N/A
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power (Conducted)	2.4GHz band: 26 dBm/400 mW (2 chains combined)* 5.0GHz band: 23 dBm/200 mW (2 chains combined)* 6.0GHz band: 22 dBm/158 mW (2 chains combined@320MHz BW)*
Kensington Lock	Yes
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11mc, 802.1X, 802.3af, 802.3at, 802.3bt, 802.3az, 802.1Q, 802.11u, 802.11w, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 256 clients per radio (Radio1, Radio2, and Radio3)
Cellular Co-existence	Yes

	FortiAP 231K
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	No
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
WIPS / WIDS radio modes	Background, Dedicated (Recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	6.88 × 6.88 × 2.2 inches (175 × 175 × 56 mm)
Weight	2.22 lbs (1.01 kg)
Package (shipping) Weight	2.85 lbs (1.29 kg)
Mounting Options	Ceiling, T-Rail, and Wall
Included Accessories	Standard Mounting Kit for Ceiling, T-Rail, and Wall
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 1.5GHz / 2 GB
Power Supply	802.3bt PoE: GPI-145 or 802.3at PoE: GPI-130 or 12V, 2.5A, 30 Watt DC power supply SP-FAP200-PA-XX
Power Consumption (Max)	15.2 W - PoE input 14.3 W - 12V DC power supply
PoE Mode	1. 802.3at: Tx Power - Full, 2×2 MIMO 2. 802.3af : Tx Power- Full, 1×1 MIMO
Humidity	5% to 90% non-condensing
Operating/Storage Temp.	32°F to 122°F (0°C to 50°C) / -22°F to 158°F (-30°C to 70°C)
Directives	Low Voltage Directive * RoHS
UL2043 Plenum Material	Yes
Mean Time Between Failures	>10 Years
IP Rating	N/A
Surge Protection Built In	N/A
Certifications	
Wi-Fi7 Certified	Certified
DFS	Europe, FCC, Japan, Australia, N, Taiwan, S. Korea, India
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

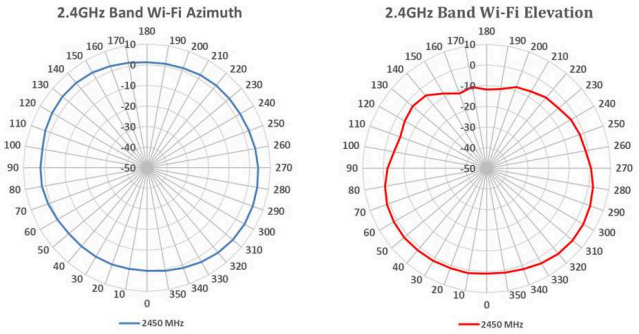
RF Rx/Tx Performance Table

FORTIAP 231K						
	2.4 GHz Band		5.0 GHz Band		6.0 GHz Band	
Data rate	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
	802.11b					
1 Mbps	23	-98				
11 Mbps	23	-91				
	802.11g		802.11a			
6 Mbps	23	-96	22	-96		
54 Mbps	22	-78	20	-77		
	802.11n HT20					
MCS0	23	-96	22	-96		
MCS7	20	-78	19	-77		
	802.11n HT40					
MCS0	23	-94	22	-91		
MCS7	20	-75	19	-75		
	802.11ac VHT20					
MCS0	23	-98	22	-96		
MCS9	18	-74	19	-71		
	802.11ac VHT40					
MCS0	23	-94	22	-93		
MCS9	18	-69	18	-69		
	802.11ac VHT80					
MCS0			22	-90		
MCS9			18	-68		
	802.11ax HE20 / 802.11be EHT20					
MCS0	23	-96	22	-96	18	-87
MCS11	17	-67	17	-67	17	-65
	802.11ax HE40 / 802.11be EHT40					
MCS0	23	-94	22	-92	18	-85
MCS11	17	-64	17	-64	17	-62
			802.11ax HE80 / 802.11be EHT80			
MCS0			22	-90	20	-82
MCS13			17	-62	18	-59
			802.11be EHT160			
MCS0			22	-88	21	-81
MCS13			17	-55	19	-58
					802.11be EHT320	
MCS0					22	-80
MCS13					18	-58

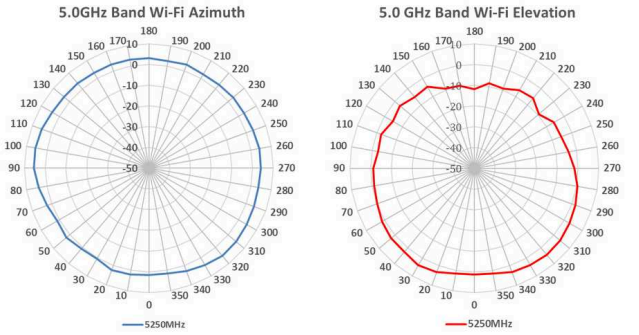
Antenna Radiation Patterns

FAP-231K

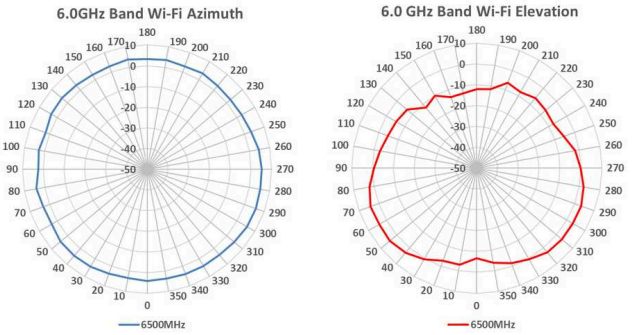
Wi-Fi 2.4GHz Plot



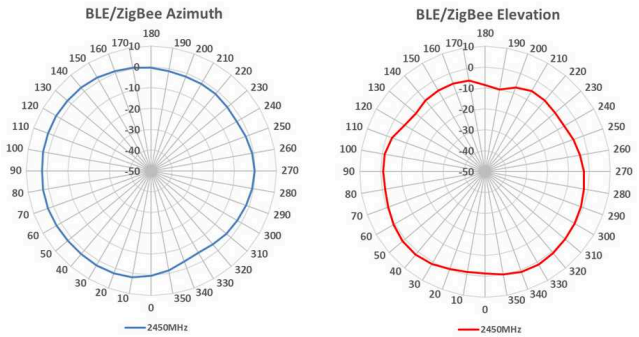
Wi-Fi 5.0GHz Plot



Wi-Fi 6.0GHz Plot



BLE/ZigBee Plot



Highlights

FortiAP 221K

The FortiAP-221K is a retail grade indoor Wi-Fi 7 dual-band access point designed for enterprise environments. It features two radios and two spatial streams (2×2) across the 2.4 GHz and 5 GHz bands, delivering reliable wireless connectivity for modern workplaces.

Integrated BLE location services and Zigbee support for IoT applications extend visibility beyond traditional endpoints, while a 2.5 Gigabit Ethernet uplink supports higher throughput requirements. The AP also enables continuous 24×7 background scanning across all bands, maintaining security monitoring without interrupting client connectivity.

Wi-Fi 7 | Dual-Radio 2.4 GHz + 5 GHz | 2 Internal Antennas

2×2 MU-MIMO | Up to 688 Mbps + 2.88 Gbps data rate



Specifications

	FortiAP 221K
Hardware	
Hardware Type	Indoor AP
Number of Radios	2 Wi-Fi + 1 BLE
Number of Antennas	x2 Dual band Wi-Fi + x1 BLE/ZigBee antenna
Antenna Type Support	Internal
Antenna Type and Peak Gain	PIFA 2.4/5GHz dual band antenna: 5.7 dBi for 2.4GHz, 5.9 dBi for 5 GHz, PFA BLE antenna: 3.5 dBi for 2.4GHz
Frequency Bands (GHz)*	2.4GHz Band: ISM 2.4-2.484GHz 5.0GHz Band: UNII-1 5.15-5.25GHz, UNII-2A 5.25-5.35GHz, UNII-2C 5.47-5.73GHz, UNII-3 5.725-5.85GHz, UNII-4 5.85-5.895GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 16/64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Maximum Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 2.882 Gbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power
Trusted Platform Module (TPM)	No
GNSS	No
Interfaces	x1 100M/1000M/2.5G Multigigabit Ethernet (RJ45) x1 RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	802.3 at
Hit-less PoE Failover	N/A
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power (Conducted)	2.4GHz band: 26 dBm/400 mW (2 chains combined)* 5.0GHz band: 23 dBm/200 mW (2 chains combined)*
Kensington Lock	Yes
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11mc, 802.1X, 802.3af, 802.3at, 802.3bt, 802.3az, 802.1Q, 802.11u, 802.11w, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
IPv6 Support	Yes
Per Radio Client Capacity	Up to 128 clients per radio (Radio1 and Radio2)
Cellular Co-existence	No
LED Off Mode	Yes

	FortiAP 221K
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	No
UTP Features	N/A
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
WIPS / WIDS radio modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	6.02 × 6.02 × 1.97 inches (153 × 153 × 50 mm)
Weight	0.85 lbs (0.385 kg)
Package (shipping) Weight	1.5 lbs (0.68 kg)
Accessories	
Mounting Options	Ceiling, T-Rail, and Wall
Included Accessories	Standard Mounting Kit for Ceiling, T-Rail, and Wall
Environment	
CPU/RAM	
Power Supply	802.3at PoE: GPI-130 or 12V, 1.5A, 18 Watt DC PA or SP-FAP200-PA-XX
Power Consumption (Maximum)	16.3 Watts
PoE Mode	802.3at: Tx Power - Full, 2×2 MIMO
Humidity	5% to 90% non condensing
Operating / Storage Temperature	32°F to 122°F (0°C to 50°C) / -22°F to 158°F (-30°C to 70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	Yes
Mean Time Between Failures	> 10 Years
IP Rating	N/A
Surge Protection Built In	N/A
Certifications	
WiFi 7 Certified	Certified
DFS	FCC, IC
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

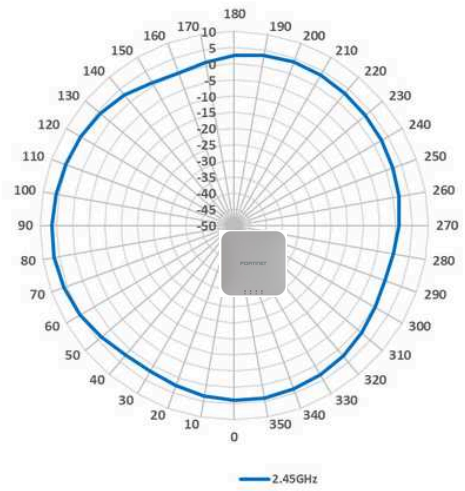
RF Rx/Tx Performance Table

FortiAP 221K				
	Radio 1		Radio 2	
	2.4 GHz Band		5 GHz Band	
Data rate	Tx Power per chain (dBm)	Rx Sensitivity (dBm)	Tx Power per Chain (dBm)	Rx Sensitivity (dBm)
802.11b				
1 Mbps	24	-98		
11 Mbps	23	-91		
802.11g/a	802.11g		802.11a	
6 Mbps	23	-96	22	-96
54 Mbps	22	-78	20	-78
802.11n HT20				
MCS0	23	-96	22	-98
MCS7	20	-78	19	-78
802.11n HT40				
MCS0	22	-94	22	-92
MCS7	19	-75	19	-73
802.11ac VHT20				
MCS0	23	-98	22	-98
MCS9	19	-74	19	-78
802.11ac VHT40				
MCS0	22	-94	22	-92
MCS9	18	-69	18	-73
802.11ac VHT80				
MCS0			22	-91
MCS9			18	-65
802.11ax HE20 / 802.11be EHT20				
MCS0	23	-96	22	-97
MCS11	18	-67	17	-70
802.11ax HE40 / 802.11be EHT40				
MCS0	22	-94	20	-94
MCS11	18	-64	17	-70
802.11ax HE80 / 802.11be EHT80				
MCS0			20	-90
MCS13			17	-56
802.11be EHT160				
MCS0			18	-88
MCS13			16	-55

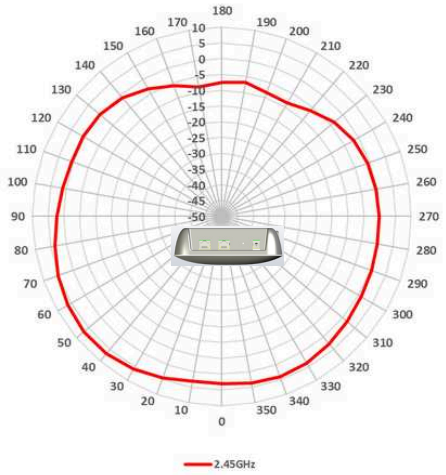
Antenna Radiation Patterns

FAP-221K

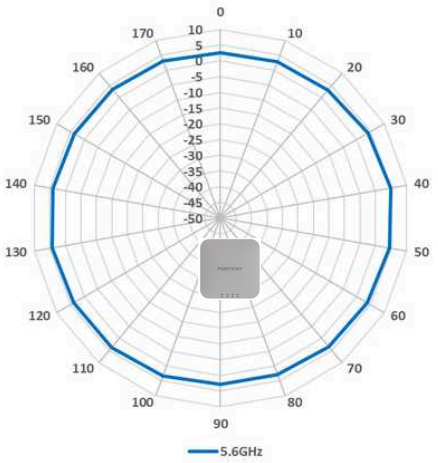
2.4GHz Band- Wi-Fi Aximuth



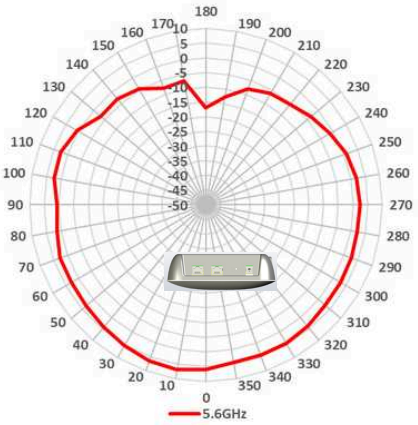
2.4GHz Band - Wi-Fi Elevation



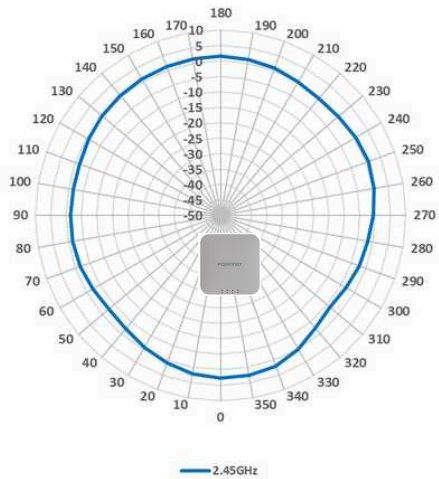
5GHz Band - Wi-Fi Azimuth



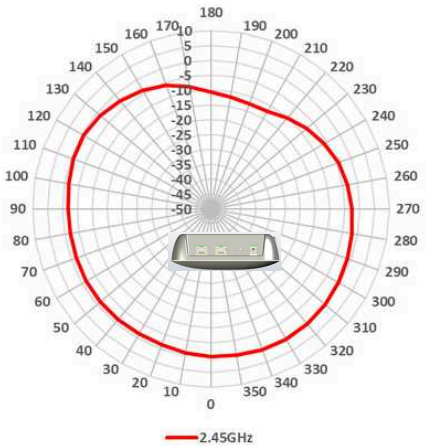
5GHz Band - Wi-Fi Elevation



BLE/ZigBee Azimuth



BLE/ZigBee Elevation



Highlights

FortiAP 23JK

These enterprise class Wi-Fi 7 indoor wall plate AP provide three radios and two spatial streams. These access points support the 6 GHz band and have one 10 Gigabit Ethernet and three 1 Gigabit Ethernet ports and one port supports the PSE OUT. The APs can provide 24/7 background scanning across all bands while still providing access on 2.4 GHz, 5 GHz, and 6 GHz bands. The integrated BLE/ ZigBee radio can be used for beacons and location applications.

Note: For FAP-23JK, use of the 6GHz band is subject to regional regulatory authority approval.

Three-Radio 2.4GHz + 5GHz + 6GHz + Scan | 4 Wi-Fi Antennas + 1 BLE/ZigBee antenna

2×2 MU-MIMO | Up to 688 Mbps + 2.88 Gbps + 5.76 Gbps data rate



Specifications

	FortiAP 23JK
Hardware	
Type	Indoor AP
Number of Radios	3 Wi-Fi + 1 BLE
Number of Antennas	5.x2 Dual band Wi-Fi + x2 6GHz band Wi-Fi + x1 BLE/ ZigBee antenna
Antenna Type Support	N/A
Antenna Type and Peak Gain	PCB 2.4/5GHz dual band antenna: 4.0 dBi for 2.4GHz, 4.4 dBi for 5 GHz PCB 6GHz antenna: 3.6 dBi for 6GHz band PCB BLE antenna: 3.7 dBi for 2.4GHz
Frequency Bands (GHz)	2.4GHz Band: ISM 2.4-2.484GHz 5.0GHz Band: UNII-1 5.15-5.25GHz, UNII-2A 5.25-5.35GHz, UNII-2C 5.47-5.73GHz, UNII-3 5.725-5.85GHz, UNII-4 5.85-5.895GHz 6.0GHz Band: UNII-5 5.925-6.425GHz, UNII-6-6.425-6.525GHz, UNII-7 6.525-6.875, UNII-8 6.875-7.125GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 16/64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Radio 3 Capabilities	Frequency band: 6.0GHz UNII-5 to UNII-8 Channel width: 20/40/80/160/320MHz Modulation: BPSK, QPSK, 16/64/256/1024/4096 QAM MIMO Chains: 2×2 Service
Maximum Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 2.882 Gbps 6.0GHz band: up to 5.765 Gbps
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power
Trusted Platform Module (TPM)	Yes
GNSS	N/A
Interfaces	WAN1: x1 100M/1000M/2.5G/5.0G/10G Multigigabit Ethernet (RJ45), 802.3bt PoE(PD) LAN ports: x3 10M/100M/1000M Gigabit Ethernet (RJ45), LAN3 802.3af PoE (PSE) RJ-45 Ports (1xPass-through in, 1xPass-through out) x1 RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	WAN1: 802.3bt
Hit-less PoE Failover	N/A
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power (Conducted)	2.4GHz band: 25 dBm/316 mW (2 chains combined)* 5.0GHz band: 22 dBm/158 mW (2 chains combined)* 6.0GHz band: 21 dBm/125 mW (2 chains combined@320MHz BW)*
Kensington Lock	Yes

	FortiAP 23JK
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11mc, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3bt, 802.3az, 802.1Q, 802.11u, 802.11w, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 256 clients per radio (Radio1, Radio2, and Radio3)
Cellular Co-existence	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	Yes
UTP Features	Application Control, Web Filtering
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
WIPS / WIDS radio modes	Background, Dedicated (Recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	7.08 × 4.72 × 1.57 inches (180 × 120 × 40 mm)
Weight	1.15 lbs (0.52 kg)
Package (shipping) Weight	1.85 lbs (0.84 kg)
Mounting Options	Wall mount default option and Table top stand option
Included Accessories	Standard Wall Mounting Kit
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 1.5GHz / 2 GB
Power Supply	802.3bt PoE (GPI-145) or 802.3at PoE (GPI-130) without PSE OUT 48V 1A DC power supply (SP-FAP23J-PA-10)
Power Consumption (Max)	31 W - PoE input 19 W - PoE input (without PSE OUT) 27.25 W - 54V DC power supply
Power Sourcing Equipment (PSE)	802.3af PSE OUT on LAN3 port
PoE Mode	802.3bt: R1(2.4GHz) + R2(5GHz) + R3(6GHz) + PSE-OUT 802.3at: R1(2.4GHz) + R2(5GHz) + R3(6GHz) without PSE-OUT
Humidity	5% to 90% non-condensing
Operating/Storage Temp.	32°F to 113°F (0°C to 45°C) / -22°F to 158°F (-30°C to 70°C)
Directives	Low Voltage Directive * RoHS
UL2043 Plenum Material	Yes
Mean Time Between Failures	>10 Years
IP Rating	N/A
Surge Protection Built In	N/A
Certifications	
Wi-Fi7 Certified	Certified
DFS	Europe, FCC, Japan, Australia, N
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

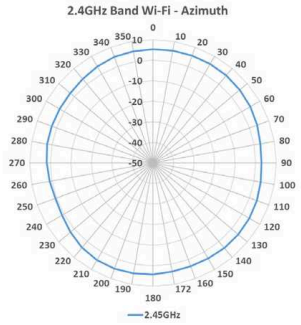
RF Rx/Tx Performance Table

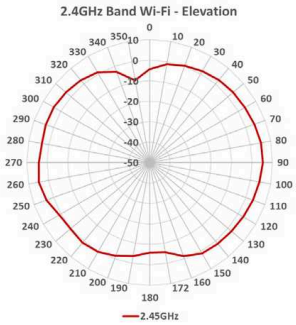
FORTIAP 23JK						
	2.4 GHz Band		5.0 GHz Band		6.0 GHz Band	
Data rate	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
	802.11b					
1 Mbps	24	-98				
11 Mbps	23	-91				
	802.11g		802.11a			
6 Mbps	24	-96	22	-96		
54 Mbps	22	-78	20	-77		
	802.11n HT20					
MCS0	24	-96	22	-96		
MCS7	20	-78	19	-77		
	802.11n HT40					
MCS0	23	-94	20	-91		
MCS7	20	-75	19	-75		
	802.11ac VHT20					
MCS0	23	-98	21	-96		
MCS9	18	-74	19	-71		
	802.11ac VHT40					
MCS0	23	-94	20	-93		
MCS9	18	-69	18	-69		
	802.11ac VHT80					
MCS0			22	-90		
MCS9			18	-68		
	802.11ax HE20 / 802.11be EHT20					
MCS0	23	-95	21	-96	14	-96
MCS11	17	-66	17	-60	14	-61
	802.11ax HE40 / 802.11be EHT40					
MCS0	21	-93	20	-93	18	-93
MCS11	17	-63	17	-59	17	-60
			802.11ax HE80 / 802.11be EHT80			
MCS0			18	-90	19	-91
MCS13			17	-56	18	-57
			802.11be EHT160			
MCS0			18	-87	21	-88
MCS13			17	-54	19	-55
					802.11be EHT320	
MCS0					22	-85
MCS13					18	-55

Antenna Radiation Patterns

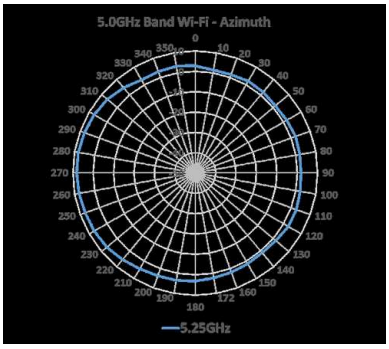
FAP-23JK

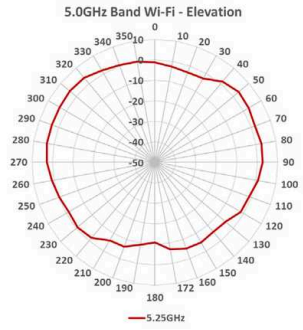
Wi-Fi 2.4GHz Plot



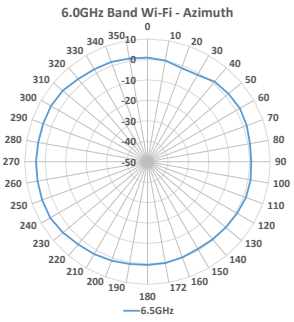


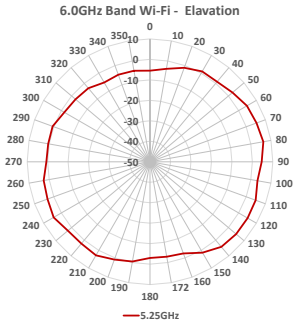
Wi-Fi 5.0GHz Plot



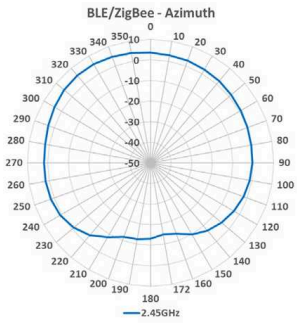


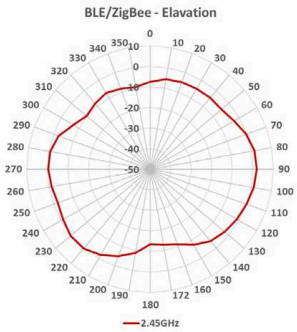
Wi-Fi 6.0GHz Plot





BLE/ZigBee Plot





Highlights

FortiAP 244K

This enterprise class Wi-Fi 7 ruggedized outdoor AP provides four radios with internal antennas and two spatial streams. This access point supports the 6 GHz band, OFDMA, a 10 Gbps SFP+ port, plus an additional 5 Gbps RJ45 Ethernet port for PoE. The AP can provide 24/7 scanning across all bands on a dedicated radio while still providing access on all the 2.4 GHz, 5 GHz, and 6 GHz bands. The integrated BLE radio can be used for beacons and locationing applications.

Note: For FAP-244K, use of the 6 GHz band is subject to regional regulatory authority approval.

Four-Radio 2.4GHz + 5GHz + 6GHz + Scan | 6 Wi-Fi Internal Antennas + 1 BLE/Zigbee internal antenna

2×2 MU-MIMO | Up to 688 Mbps + 4.3 Gbps + 5.76 Gbps data rate



FAP-244K Front View



FAP-244K Side View

Specifications

	FortiAP 244K
Hardware	
Type	Outdoor
Number of Radios	4 + 1 BLE
Number of Antennas	7 Internal Antennas
Antenna Type and Peak Gain	Directional Wi-Fi antennas 8.8 dBi for 2.4GHz, 9.4 dBi for 5 GHz, and 8.5 dBi for 6GHz band BLE antenna 4.6 dBi for 2.4GHz band
Frequency Bands (GHz)	2.4GHz Band: 2.4-2.484GHz 5GHz Band: 6GHz Band: U-NII-1 5.15-5.25GHz U-NII-5 5.925–6.425GHz U-NII-2A 5.25-5.35GHz U-NII-6 6.425–6.525GHz U-NII-2C 5.47-5.725GHz U-NII-7 6.525–6.875GHz U-NII-3 5.725-5.85GHz U-NII-8 6.875–7.125GHz U-NII-4 5.85–6.895GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64 - 4096 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160/240MHz Modulation: BPSK, QPSK, 64 - 4096 QAM MIMO Chains: 2×2 Service
Radio 3 Capabilities	Frequency band: 6.0GHz UNII-5 to UNII-8 Channel width: 20/40/80/160/320MHz Modulation: BPSK, QPSK, 64 - 4096 QAM MIMO Chains: 2×2 Service
Maximum Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 4.324 Gbps 6.0GHz band: Up to 5.765 Gbps
Bluetooth Low Energy (BT/BLE) Radio	Bluetooth scanning and iBeacon advertisement @10 dBm max TX power
Trusted Platform Module (TPM)	Yes
GNSS	GPS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BeiDou : 1561.098 MHz, Galileo E1: 1575.42 MHz Supports for multi-GNSS including QZSS and SBAS ranging Indoor and outdoor multi-path detection and compensation
Interfaces	Port 1: 1× RJ-45 Multi-Gigabit Ethernet (100 M / 1 G / 2.5 G / 5 G), 802.3bt PoE-IN Port 2: 1× Fiber optic SFP+ Cage, 1 G / 10 G link speed Console: 1× RJ-45 Serial Console (RS-232
Power over Ethernet (PoE)	x1 802.3bt PoE included in the package
Hit-less PoE Failover	
Simultaneous SSIDs	Up to 8 per client serving radio
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPV0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Pre-shared key, WEP, Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power (Conducted)	(two chains combined) 2.4GHz band: 25 dB/316 mow 5.0GHz band: 26 dB/400 mow 6.0GHz band: 23 dB/200 mow
Kensington Lock	No

	FortiAP 244K
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11mc, 802.11n, 802.11r, 802.11v, 802.11ac, 802.11ax, 802.11u, 802.11w, 802.1Q, 802.1X, 802.3ad, 802.3at, 802.3az, 802.3bt, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 clients (Radio1, Radio2 and Radio3)
Cellular Co-existence*	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	Yes
UTP Features	Application Control, Web Filtering
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Dedicated, Background
WIPS / WIDS radio modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height - Access Point	8.66 × 8.66 × 2.36 inch (220 × 220 × 60 mm)
Length x Width x Height - Package (Shipping)	11.85 × 10.23 × 7.24 inch (301 × 260 × 184 mm)
Weight - Access Point	2.4 kg / 5.29 lbs
Weight - Package (Shipping)	5.6 kg / 12.34 lbs
Mounting Options	Articulating Wall and Pole mounting
Included Accessories	.3bt PoE, Articulating mounting bracket, Grounding cable.
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 1.5GHz / 2 GB
Power Supply	802.3bt PoE: GPI-145 (Included)
Power Consumption (Max)	26 Watts
Power Sourcing Equipment (PSE)	No
PoE Mode	
Humidity	5% to 90% non-condensing
Operating/Storage Temp.	-40°F to 158°F (-40°C to 70°C) -58°F to 178°F (-50°C to 80°C)
Operating Altitude	3000 m
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	Yes
Mean Time Between Failures	> 10 years
IP Rating	IP67
Surge Protection Built In	No
Certifications	
Wi-Fi7 Certified	Certified
DFS	FCC, IC, and CE
Hazardous Location	In Progress
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

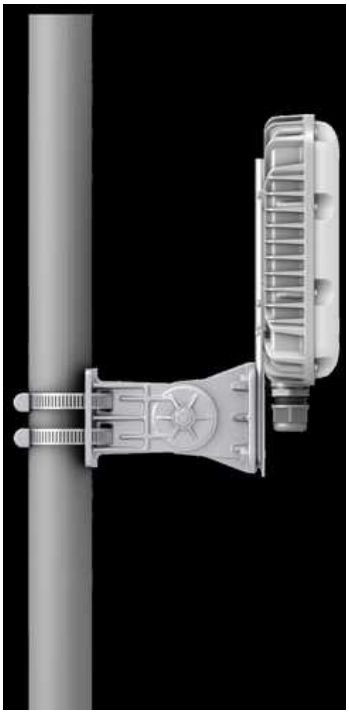
RF Rx/Tx Performance Table

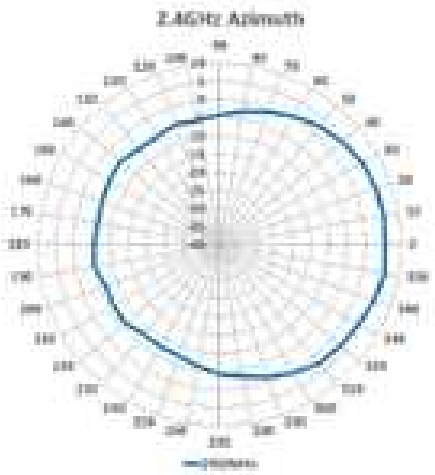
FORTIAP 244K						
	2.4 GHz Band		5.0 GHz Band		6.0 GHz Band	
Data rate	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
	802.11b					
1 Mbps	24	-99				
11 Mbps	24	-91				
	802.11g		802.11a			
6 Mbps	24	-97	23	-96		
54 Mbps	23	-79	21	-79		
	802.11n HT20					
MCS0	24	-96	23	-96		
MCS7	21	-78	20	-78		
	802.11n HT40					
MCS0	24	-95	23	-91		
MCS7	21	-76	20	-75		
	802.11ac VHT20					
MCS0	24	-96	23	-93		
MCS9	19	-74	20	-75		
	802.11ac VHT40					
MCS0	24	-94	23	-93		
MCS9	19	-70	19	-69		
	802.11ac VHT80					
MCS0			23	-91		
MCS9			18	-66		
	802.11ax HE20 / 802.11be EHT20					
MCS0	23	-96	23	-96	22	-96
MCS11	17	-67	18	-68	19	-68
	802.11ax HE40 / 802.11be EHT40					
MCS0	23	-95	23	-91	22	-94
MCS11	17	-65	18	-64	19	-65
			802.11ax HE80 / 802.11be EHT80			
MCS0			23	-91	22	-91
MCS13			18	-62	18	-58
			802.11be EHT160			
MCS0			23	-88	22	-88
MCS13			17	-55	18	-56
					802.11be EHT320	
MCS0					22	-85
MCS13					17	-55

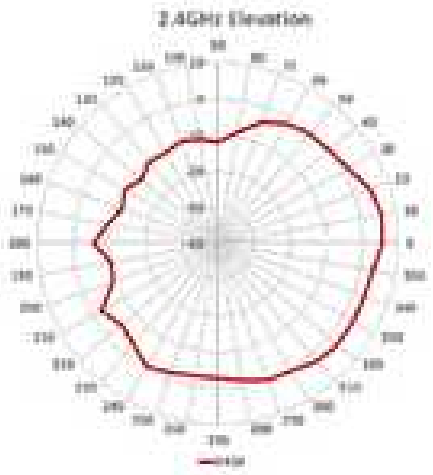
Antenna Radiation Patterns

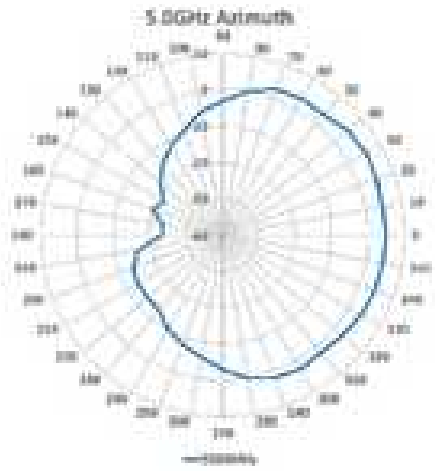
FAP-244K

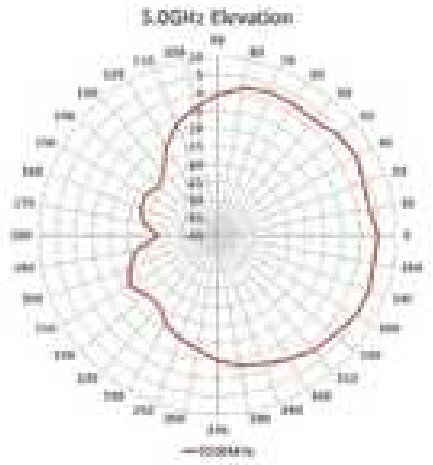


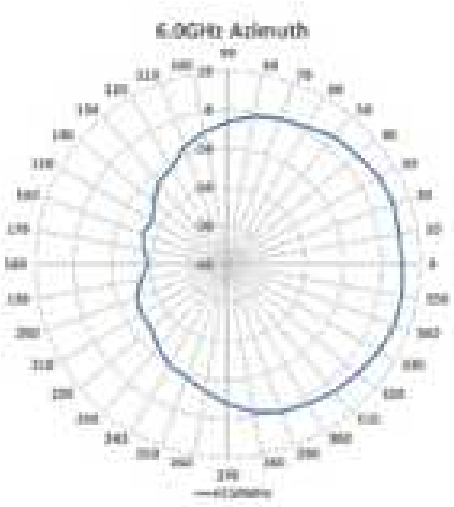


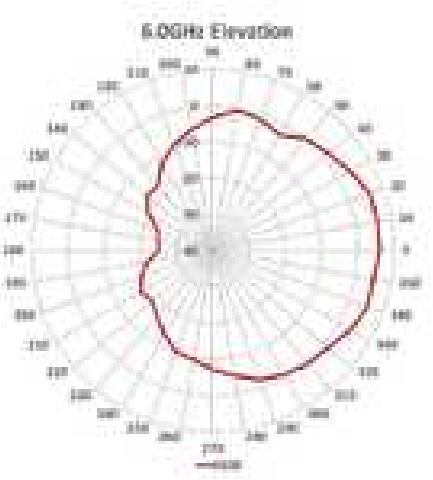












Highlights

FortiAP 222KL

This enterprise class Wi-Fi 7 ruggedized outdoor AP provides two Wi-Fi radios with external antennas and two spatial streams. This access point supports LoRaWAN modules plus LTE Backhaul in addition to 1× 2.5 Gbps PoE and 1× 1 Gbps RJ45 Ethernet port that can also be PSE-PD. The AP can provide background scan across all bands while still providing access on all the 2.4 GHz and 5 GHz bands making it more advanced for IoT applications.

Note: For FAP-222KL, use of the LTE module is subject to country/region of use (Not supported in early release).

Two Radio 2.4 GHz + 5 GHz (2 External dual band Antenna) | LoRaWAN (External Antenna)+ 1 LTE Cat4 (1 External Antenna) + GNSS (1 Internal Antenna)

2×2 MU-MIMO | Up to 688 Mbps + 2.88 Gbps





FAP-222KL

Specifications

	FortiAP 222KL			
Hardware				
Type	Outdoor			
Number of Radios	2 Wi-Fi + LoraWAN + 1 LTE + 1 GNSS			
Number of Antennas	5 External Antennas			
Antenna Type Support	N Type: 5 Antennas			
Antenna Type and Peak Gain	Wi-Fi 5 dBi @2.4GHz 6.5 dBi @5GHz	LoraWAN Omni Directional 4 dBi	LTE 4 dBi	GNSS Patch 2.7 dBi
Frequency Bands (GHz)	2.4GHz Band: 2.4-2.484GHz		5GHz Band: U-NII-1: 5.15-5.25GHz U-NII-2A: 5.25-5.35GHz U-NII-2C: 5.47-5.725GHz U-NII-3: 5.725-5.85GHz U-NII-4: 5.85–5.925GHz	
2.4GHz Wi-Fi Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64 - 4096 QAM MIMO Chains: 2×2 Service Radio			
5.0GHz Wi-Fi Capabilities	Frequency band: 5.0GHz UNII-1 to UNII-4 Channel width: 20/40/80/160/240MHz Modulation: BPSK, QPSK, 64 - 4096 QAM MIMO Chains: 2×2 Service Radio			
WiFi Data Rate	2.4GHz band: up to 688 Mbps 5.0GHz band: up to 4.324 Gbps			
Wi-Fi TX Power maximum (2 chains combined)	**2.4GHz band: 25 dB/316 mw** **5.0GHz band: 26 dB/400 mw**			
LoraWAN	US		Europe	
Frequency	902-928 MHz		863 – 870 MHz	
Channels	8× 125 kHz uplink (902.3–914.9 MHz) 1× 500 kHz downlink (923.3–927.5 MHz)		8× 125 kHz uplink (868.1–868.5 MHz) 1× 125 kHz downlink (869.525 MHz)	
Spreading Factor	SF7 – SF12		SF7 – SF12	
TX Power	26 dBm		14 dBm	
RX Sensitivity	-139 dBm		-139 dBm	
LTE Frequency	Worldwide			
4G	B1, B2, B3, B4, B5, B7, B8, B8_US B9, B12, B13, B14, B18, B19, B20, B25, B26, B28			
3G	B1, B2, B4, B5, B6, B8, B19			
2G	B2, B3, B5, B8			
LTE data rate	Down link: 150 Mbps Uplink: 50 Mbps			
LTE SIM management	eSIM			
Bluetooth Low Energy (BT/BLE) Radio	No			
Trusted Platform Module (TPM)	Yes			
GNSS	GPS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BeiDou : 1561.098 MHz, Galileo E1: 1575.42 MHz Supports for multi-GNSS including QZSS and SBAS ranging Indoor and outdoor multi-path detection and compensation GNSS sensitivity -165 dBm (Tracking), -148 dBm (acquisition)			
Interfaces	Port 1: 1× RJ-45 Multi-Gigabit Ethernet (100 M / 1 G / 2.5 G), 802.3bt PoE-IN Port 2: 1× RJ-45 Multi-Gigabit Ethernet (10M / 100 M / 1 G), 802.3af PoE-OUT Console: 1× RJ-45 Serial Console (RS-232)			
Power over Ethernet (PoE)	x1 802.3bt PoE			

	FortiAP 222KL
Simultaneous SSIDs	Up to 8 per client serving radio
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPV0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Pre-shared key, WEP, Web Captive Portal, MAC blocklist and allowlist
IEEE Standards	802.11a, 802.11b, 802.11be, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11mc, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax, 802.1Q, 802.1X, 802.3ad, 802.3at, 802.3az, 802.3bt, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 clients (Radio1 and Radio2)
Cellular Co-existence*	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	No
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background
WIPS / WIDS radio modes	Background
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Device Length x Width x Height	8.66 × 8.66 × 2.36 inch (220 × 220 × 60 mm)
Shipping Length x Width x Height	11.85 × 10.23 × 7.24 inch (301 × 260 × 184 mm)
Device Weight	5.95 lbs (2.7 kg)
Shipping Package Weight	14.3 lbs (6.5 kg)
Mounting Options	Wall and Pole mounting brackets (included)
Included Accessories	802.3bt PoE, Mounting bracket, Grounding cable
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 1.5GHz / 2 GB
Power Supply	802.3bt PoE (Included)
Power Consumption (Max)	26 Watts
PoE Mode	Full - 802.3bt or Passive (Shipped with unit) : Tx Power - Full ; Chain 2×2 ; PSE - Enabled
Humidity	5% to 90% non-condensing
Operating/Storage Temp.	-40°F to 158°F (-40°C to 70°C) -58°F to 178°F (-50°C to 80°C)
Operating Altitude	9842 ft (3000 m)
Mean Time Between Failures	>10 years
IP Rating	IP67
Wind	165 mph (266 km/h)
Certifications	
Regulatory Compliance	FCC/ISED, CE, Class 1 Division 2, ATEX Zone 2
Wi-Fi7 Certified	In Progress
DFS	FCC, IC and CE
Hazardous Location	In Progress
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

Highlights

FortiAP 432G

This enterprise class 802.11ax ruggedized indoor/outdoor AP provides three radios for tri-band access on radio capable of four spatial streams. As a Wi-Fi 6E access point it provides 6GHz band operation, OFDMA, a 10 Gigabit Ethernet port, plus an additional 1 Gbps Ethernet port with PoE out. The integrated BLE radio can be used for beacons and locationing applications.

Note: For FAP-432G, use of the 6GHz band is subject to regional regulatory authority approval.

802.11ax | Tri-Radio 2.4 GHz + 5 GHz + 6 GHz | 8 External Antennas

4×4 MU-MIMO | Up to 1148 Mbps + 2402 Mbps + 4804 Mbps



FAP-432G



FAP-432G
Pole/Wall Mounting

Specifications

	FortiAP 432G
Hardware	
Hardware Type	Wi-Fi 6E 4×4 MIMO Outdoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	External: x4 Dual band WiFi + x4 Tri-band WiFi and Scanning + x1 2.4GHz band BLE/ZigBee
Antenna Type Support	N-Type (9 total): Dual Band Antenna (4); Tri Band Antenna (4); BLE/Scan antenna (1)
Antenna Type and Peak Gain	Omni Directional antenna. Dual band: 5.1 dBi for 2.4GHz, 6.4 dBi for 5 GHz Tr-band: 4.9 dBi for 2.4GHz, 5.8 dBi for 5 GHz, and 6.0dBi for 6GHz band BLE Antenna: 4.7dBi for 2.4GHz GPS Antenna: ceramic patch circular polarized: 3.0dBi Peak gain
Antenna Beam width	Wi-Fi: 2.4GHz Band: 360° Horizontal and 65° Vertical 5.0GHz Band: 360° Horizontal and 50° Vertical 6.0GHz Band: 360° Horizontal and 65° Vertical BLE: 2.4GHz Band: 225° Horizontal and 55° Vertical GPS: 1.5-1.6GHz Band: 360° Horizontal and 98° Vertical
Supported Frequency Bands (GHz)*	2.4-2.484GHz 5.15-5.25GHz 5.25-5.35GHz 5.47-5.725GHz 5.725-5.85GHz 5.925–6.425GHz 6.425–6.525GHz 6.525–6.875GHz 6.875–7.125GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 4×4 Service
Radio 2 Capabilities	Frequency band: 5.0GHz Channel width: 20/40/80MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 4×4 Service
Radio 3 Capabilities	Frequency band: 2.4GHz, 5.0GHz, and 6.0GHz Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 4X4 Service (2×2 when Scanning)
Maximum Data Rate	Radio 1: up to 1182 Mbps Radio 2: up to 2475 Mbps Radio 3: Up to 4804 Mbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power
Trusted Platform Module (TPM)	Yes
GNSS	
Supported Bands	GPS L1 C/A, QZSS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BDS B1I : 1561.098 MHz, Galileo E1: 1575.42 MHz
Default constallations	GPS + GLONASS + BDS + Galileo + QZSS
Tracking channels	47
Concurrent GNSS	5
SBAS	WAAS, EGNOS, MSAS and GAGAN
Sensitivity (@ default constallations)	Acquisition: -147 dBm | Tracking: -166 dBm | Reacquisition: -159
Interfaces	x1 10GBASE-T/5GBASE-T/2.5GBASE-T/1000BASE-T/100BASE-TX/10BASE-Te RJ45, x1 10/100/1000 Base-T RJ45, x1 RS-232 RJ45 Serial Port
MDI/MDIX	Supported
Power over Ethernet (PoE)	802.3bt PoE on LAN1/10G PoE port
PSE OUT	802.3af power on LAN2/1G PSE port
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power	Radio 1: 2.4GHz: 29.8 dBm / 955 mW (4 chains combined)* Radio 2: 5GHz: 29.8 dBm / 955 mW (4 chains combined)* Radio 3: 6GHz: 26 dBm / 400 mW (4 chains combined @ 160MHz BW)*

	FortiAP 432G
Kensington Lock	No
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax, 802.11mc, 802.1Q, 802.1X, 802.3ad, 802.3at, 802.3bt, 802.3az, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 clients per radio (Radio1, Radio2, and Radio3)
Cellular Co-existence	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	Yes
Onboard Security Functions	
UTP Capable	Yes
UTP Features	Application control and Web filtering
Wireless Monitoring Capabilities	
Rogue Scan Radio Modes	Background, Dedicated
WIPS / WIDS Radio Modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Power source and power consumption	
PoE	PIN060-54PR 60W PoE with reset switch shipped with the AP
Power Consumption (Maximum)	41.2 Watts (Including PSE out of 12.9 watts)
PoE Mode	Full - 802.3bt or Passive (Shipped with unit) : Tx Power - Full ; Chain 4×4 ; PSE - Enabled High - 802.3at or 2×802.3af : All Radio Operation in Low Tx Power 17 dBm ; Chain 4×4 ; PSE - Disabled
Hit-less PoE Failover	N/A
Surge Protection Built In	No
Dimensions	
Length x Width x Height	9.45 × 9.45 × 2.74 inches (240.0 × 240.0 × 69.6 mm)
Weight	7.05 lbs (3.2 kg)
Package (shipping) Weight	13.2 lbs (6.0 kg)
Accessories (included)	
Mounting Accessories	Wall and Pole installation brackets with mounting kits
PoE	PIN060-54PR 60W PoE with reset switch or IEEE 802.3bt PoE
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 2.2GHz / 1 GB
Humidity	5% to 90% non-condensing
Operating / Storage Temperature	-40°F to 140°F (-40°C to 60°C) / -58°F to 158°F (-50°C to 70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	No
Mean Time Between Failures	>10 Years
IP Rating	IP67
Certifications	
Wi-Fi Alliance Certified	Certified
DFS	Europe, FCC, N, Brazil, Taiwan
Hazardous Location	In Progress
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

RF Rx/Tx Performance Table

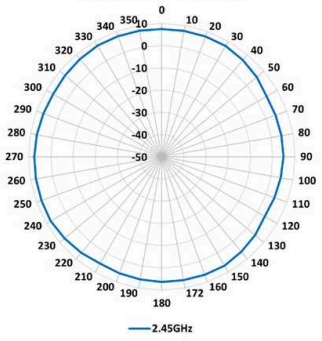
FORTIAP 432G						
	2.4 GHz Band		5.0 GHz Band		6 GHz Band	
Data rate	Tx power/chain (dBm)	Rz Sensitivity (dBm)	Tx power/chain (dBm)	Rz Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
802.11b						
1 Mbps	27	-99				-99
11 Mbps	27	-91				-91
802.11g/a	802.11g			802.11a		
6 Mbps	27	-94	25	-92	22	-94
54 Mbps	27	-78	23	-75	21	-77
802.11n HT20						
MCS0	26	-94	25	-91		
MCS7	26	-77	22	-73		
802.11n HT40						
MCS0	25	-93	25	-89		
MCS7	25	-74	22	-70		
802.11ac VHT20						
MCS0	23	-95	25	-91		
MCS9	21	-73	22	-70		
802.11ac VHT40						
MCS0	23	-92	23	-89		
MCS9	20	-70	21	-67		
802.11ac VHT80						
MCS0			23	-85		
MCS9			21	-62		
802.11ax HE20						
MCS0	26	-94	23	-91	22	-91
MCS11	24	-71	21	-63	19	-65
802.11ax HE40						
MCS0	25	-92	22	-88	21	-89
MCS11	23	-63	20	-60	19	-61
802.11ax HE80						
MCS0			22	-85	21	-85
MCS11			20	-57	18	-60
802.11ax HE160						
MCS0					20	-85
MCS11					17	-56

Maximum capability of the Hardware provided (Excluding antenna gain)

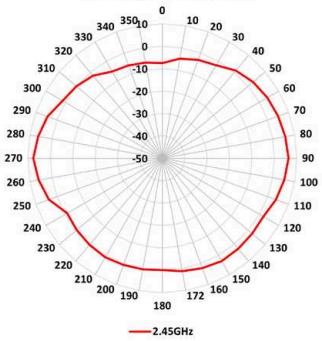
Antenna Radiation Patterns

FAP-432G

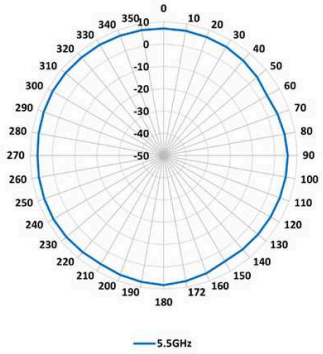
2.4GHz Band - Azimuth



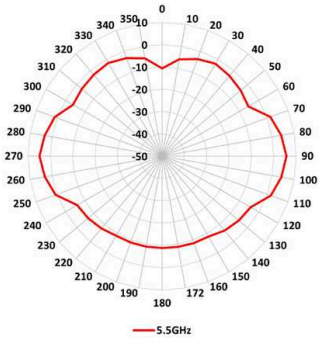
2.4GHz Band - Elevation



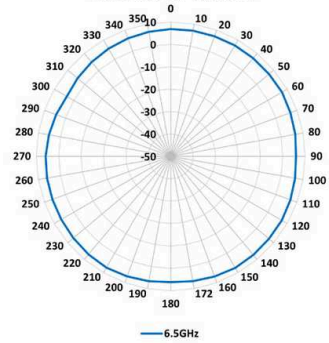
5.0GHz Band - Azimuth



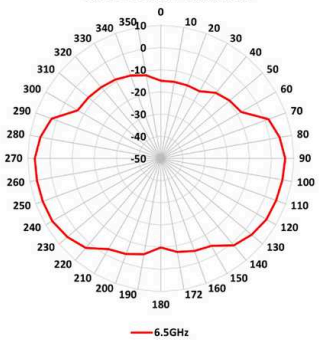
5.0GHz Band - Elevation



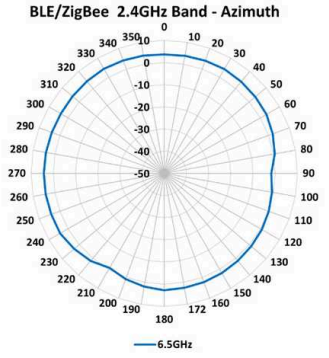
6.0GHz Band - Azimuth



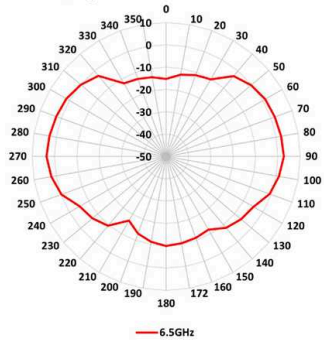
6.0GHz Band - Elevation



BLE/ZigBee 2.4GHz Band - Azimuth



BLE/ZigBee 2.4GHz Band - Elevation



Highlights

FortiAP 234G

This enterprise class Wi-Fi 6E ruggedized indoor/outdoor AP provides three radios with internal antennas and two spatial streams. This access point supports the 6 GHz band, OFDMA, a 2.5 Gigabit Ethernet port, plus an additional 1 Gbps Ethernet port for PoE diversity. The AP can provide 24/7 scanning across all bands while still providing access on both the 2.4 GHz and 5 GHz bands or 2.4 Ghz and dual 5 GHz service or the AP can be configured to provide simultaneous access on 2.4 GHz, 5 GHz, and the 6 GHz bands. The integrated BLE radio can be used for beacons and locationing applications.

Note: For FAP-234G, use of the 6GHz band is subject to regional regulatory authority approval.

Wi-Fi 6E | Tri-Radio 2.4 GHz + 5 GHz + 5 GHz / 6 GHz / scanning | 8 Internal Antennas

2×2 MU-MIMO | Up to 574 Mbps + 1201 Mbps + 2402 Mbps



FAP-234G

Specifications

	FortiAP 234G
Hardware	
Hardware Type	Outdoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	10 2*2.4GHz WiFI + 2*5GHz band WiFi + 2*5/6GHz dual band + 2*Tri-band Scanning + 1*Single band 2.4GHz BLE/ ZigBee + 1*GPS antenna
Antenna Type and Peak Gain	Cross dipole 2.4GHz band: 6.8dBi Cross dipole 5.0GHz bamd: 8.4dBi Cross dipole Dual band: 8.1 dBi for 5.0GHz, 5.5 dBi for 6 GHz Tr-band: 4.5 dBi for 2.4GHz, 5.5 dBi for 5 GHz and 8.4 dBi for 6GHz band BLE antenna: 4.4dBi for 2.4Ghz GPS Circular polarized patch antenna 5.0dBi
Antenna Beam width	Wi-Fi: 2.4GHz Band: 305° Horizontal and 97° Vertical 5.0GHz Band: 337° Horizontal and 122° Vertical 6.0GHz Band: 283° Horizontal and 94° Vertical BLE: 2.4GHzGHz Band: 196° Horizontal and 133° Vertical GPS: 1.5-1.6GHz Band: 360° Horizontal and 98° Vertical
Frequency Bands (GHz)*	2.4-2.484GHz; 5.15-5.25GHz; 5.25-5.35GHz; 5.35-5.47GHz; 5.47-5.725GHz; 5.725-5.85GHz; 5.925–6.425GHz; 6.425-6.525GHz; 6.525–6.875GHz; 6.875–7.125GHz
Radio 1 Capabilities	Frequency band: 2.4GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0GHz Channel width: 20/40/80/80+80MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Service
Radio 3 Capabilities	Frequency band: 2.4GHz, 5.0GHz, and 6.0GHz Channel width: 20/40/80/160MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Service and Scanning
Maximum Data Rate	Radio 1: up to 574 Mbps Radio 2: up to 1201 Mbps Radio 3: Up to 2401 Mbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertizement @10 dBm max TX power
Trusted Platform Module (TPM)	Yes
GNSS	
Supported Bands	GPS L1 C/A, QZSS L1 C/A: 1575.42 MHz, GLONASS L1: 1598.0625–1605.375 MHz BDS B1I : 1561.098 MHz, Galileo E1: 1575.42 MHz
Default constallations	GPS + GLONASS + BDS + Galileo + QZSS
Tracking channels	47
Concurrent GNSS	5
SBAS	WAAS, EGNOS, MSAS and GAGAN
Sensitivity (@ default constallations)	Acquisition: -147 dBm Tracking: -166 dBm Reacquisition: -159
Interfaces	1*100/1000/2500 Base-T RJ45, 1*10/100/1000 Base-T RJ45, 1*RS-232 RJ45 Serial Port
MDI/MDIX	Supported
Power over Ethernet (PoE)	IEEE 802.at
Simultaneous SSIDs	Up to 24
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist
Maximum Tx Power	Radio 1: 2.4GHz: 26 dBm / 398 mW (2 chains combined)* Radio 2: 5GHz: 26 dBm / 398 mW (2 chains combined)* Radio 3: 5GHz: 26 dBm / 398 mW (2 chains combined)*, 6GHz: 26dBm/398 mW (2 chians combined EIRP)*

	FortiAP 234G
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax, 802.11mc,WW 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 clients per radio (Radio1, Radio2 and Radio3)
Cellular Co-existence	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL- MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	Yes
UTP Features	Application control and Web filtering
Wireless Monitoring Capabilities	
Rogue Scan Radio Modes	Background, Dedicated
WIPS / WIDS Radio Modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Power source and power consumption	
PoE	PIN060-54PR 60W PoE with reset switch shipped with the AP
Power Consumption (Max)	28 Watts
PoE Mode	Full - 802.3at or passive(Shipped with unit) : Tx Power - Full ; Chain 2×2 Low - 802.3af : R1(2.4GHz) and R2(5GHz) Operation in Low Tx Power 17 dBm ; Radio3 - Disabled
Hit-less PoE Failover	Yes
Surge Protection Built In	No
Dimensions	
Length x Width x Height	10.15 × 8.50 × 2.26 inches (258 × 216 × 57.3 mm)
Weight	3.05 lbs (1.38 kg)
Package (shipping) Weight	8.15 lbs (3.7 kg)
Accessories (included)	
Mounting Accessories	Wall and Pole installation brackets with mounting kits
PoE	PIN060-54PR 60W PoE with reset switch or IEEE 802.3bt PoE
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 1.8GHz / 1 GB
Humidity	5% to 90% non-condensing
Operating / Storage Temperature	-40°F to 140°F (-40°C to 60°C) / -58°F to 158°F (-50°C to 70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	Yes
Mean Time Between Failures	> 10 Years
IP Rating	IP67
Certifications	
Wi-Fi Alliance Certified	Certified
DFS	Europe, FCC, N, Brazil, Taiwan, India
Hazard Location	C1D2/ATEX Certified
Warranty	
Limited Lifetime Warranty	Yes

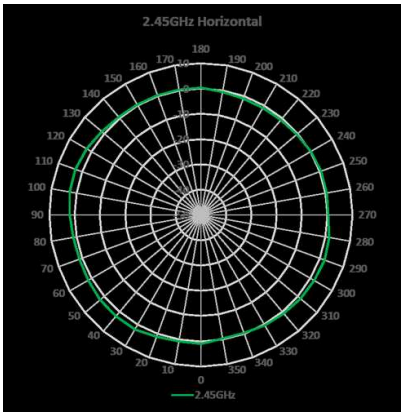
* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

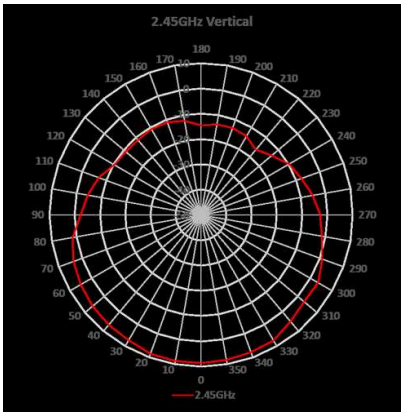
RF Rx/Tx Performance Table

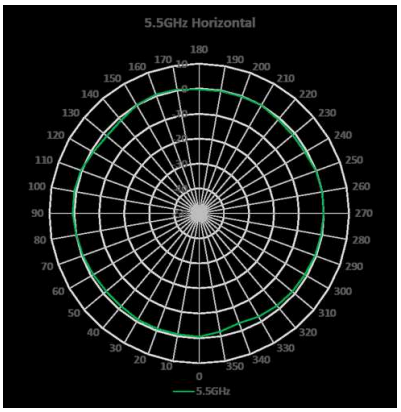
FORTIAP 234G						
	Radio1 2.4GHz Band		Radio2 5.0GHz Band		Radio3 6GHz Band	
Data rate	Tx power/chain (dBm)	Rz Sensitivity (dBm)	Tx power/chain (dBm)	Rz Sensitivity (dBm)	Tx power/chain (dBm)	Rx Sensitivity (dBm)
802.11b						
1 Mbps	23	-99				
11 Mbps	23	-91				
802.11g/a	802.11g		802.11a			
6 Mbps	23	-94	23	-92	17	-94
54 Mbps	23	-78	22	-75	17	-77
802.11n HT20						
MCS0	23	-94	23	-91		
MCS7	21	-77	21	-73		
802.11n HT40						
MCS0	23	-93	23	-89		
MCS7	21	-74	21	-70		
802.11ac VHT20						
MCS0	23	-95	23	-91		
MCS9	21	-73	21	-70		
802.11ac VHT40						
MCS0	23	-92	23	-89		
MCS9	20	-70	20	-67		
802.11ac VHT80						
MCS0			22	-85		
MCS9			19	-62		
802.11ax HE20						
MCS0	23	-94	22	-91	17	-94
MCS11	20	-71	19	-63	15	-67
802.11ax HE40						
MCS0	20	-92	22	-88	16	-91
MCS11	17	-63	19	-60	14	-63
802.11ax HE80						
MCS0			21	-85	16	-88
MCS11			18	-57	13	-61
802.11ax HE160						
MCS0					15	-85
MCS11					12	-58

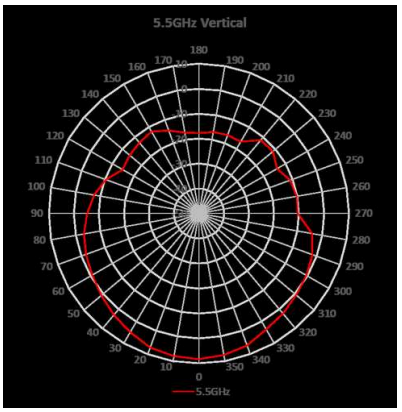
Antenna Radiation Patterns

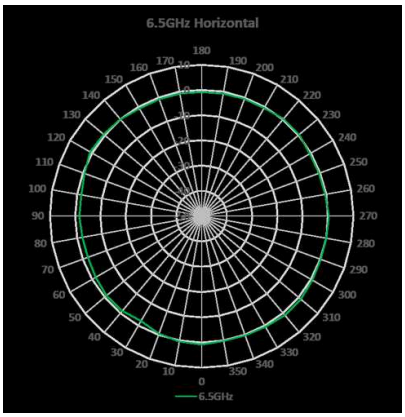
FAP-234G

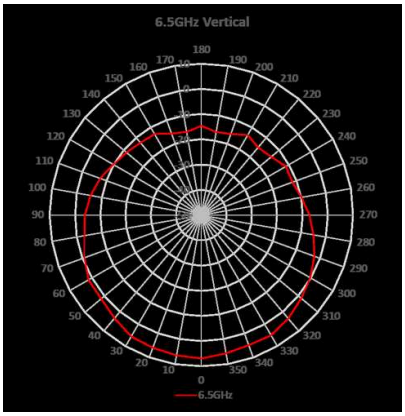


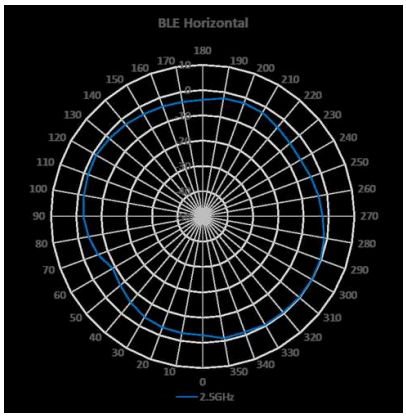


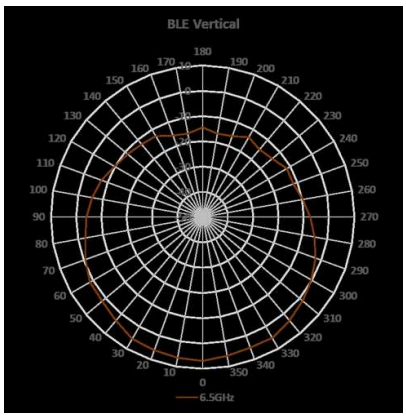












Highlights

FortiAP 831F

This high throughput enterprise class 802.11ax indoor AP provides three radios and 8 spatial streams. This top-of-the line access point supports OFDMA, a 5.0 Gigabit Ethernet port, plus an additional 1 Gbps Ethernet port for PoE diversity. The AP can provide 24/7 scanning across both bands while still providing access on both the 2.4 GHz and 5 GHz bands. The integrated BLE radio can be used for beacons and locationing applications.

802.11ax | Tri-Radio 2.4 GHz + 5 GHz + scanning | 13 Internal Antennas

8×8 MU-MIMO | Up to 1147 Mbps + 4804 Mbps



FAP-831F

Specifications

	FortiAP 831F
Hardware	
Hardware Type	Indoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	4 2.4GHz band WiFi + 8 5GHz band WiFi + I Dual band Scanning + 1 2.4GHz band BLE
Antenna Type and Peak Gain	PIFA: 4.0 dBi for 2.4 GHz band WiFi antennas 6.0 dBi for 5.0 GHz band WiFi antennas 4.0 dBi for dual band Scanning radio antenna 4.5 dBi for 2.4 GHz band BLE antenna
Frequency Bands (GHz)*	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Radio 1 Capabilities	Frequency Band: 2.4 GHz Channel width: 20/40 MHz Modulation: BPSK, QPSK, QAM64 MIMO chains: 4×4 service
Radio 2 Capabilities	Frequency Band: 5.0 GHz Channel width: 20/40/80/80+80/160MHz Modulation: BPSK, QPSK, QAM64, QAM256, and QAM1024 Mimo chains: 8×8 service in mode 1 or 4×4+4×4 service in mode 2
Radio 3 Capabilities	Frequency band: 2.4/5.0 GHz MIMO chains: 1×1 frequency scanning
Maximum Data Rate	802.11AX features: PHY data rates up to 5.95 Gbps 802.11AC features: PHY data rates up to 3.4 Gbps 802.11n features: PHY data rates up to 1.5 Gbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
Interfaces	1× 100/1000/2500/5000 Base-T RJ45 1 × 10/100/1000 Base-T RJ45 1x Type 3.0 USB, 1x RS-232 RJ45 Serial Port
MDI/MDIX	Supported Supported
Power over Ethernet (PoE)	2× 802.3at/bt/30W Passive PoE in (Full function) 1× 802.3at PoE in (USB3.1 disabled)
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist
Maximum Tx Power (Conducted)	Radio 1: 2.4 GHz 27 dBm / 500 mW (4 chains combined)* Radio 2: 5 GHz 25.5 dBm / 354 mW (4 chains combined)* Radio 3: NA
Kensington Lock	Yes
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i,802.11j, 802.11k, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax (Wi-Fi 6), 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, Tunnel
Per Radio Client Capacity	up to 512 clients per radio (Radio1 and Radio2)
Cellular Co-existence	Yes
LED Off Mode	Yes

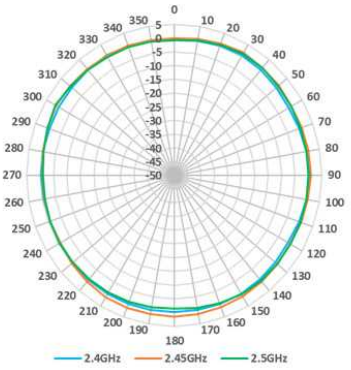
	FortiAP-831F
Advanced 802.11 Features	
OFDMA	Yes (UL and DL)
Spatial Reuse (BSS Coloring)	Yes
UL-MU-MIMO 802.11ax mode	Yes
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS /Agile DFS	No
Onboard Security Functions	
UTP Capable	No
UTP Features	N/A
Wireless Monitoring Capabilities	
Rogue Scan Radio Mode	Dedicated
WIPS / WIDS RAdio Modes	Dedicated
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	9.05 × 89.05 × 2.15 inches (230 × 230 × 55 mm)
Weight	2.25 lbs (1.02 kg)
Package (shipping) Weight	4.2 lbs (1.9 kg)
Accessories	
Mounting Options	Ceiling, T-Rail, and Wall
Included Accessories	Mount kit for Ceiling, T-Rail, and Wall
Power Supply	SP-FAP400-PA-XX or GPI-130
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 2.2GHz / 1 GB
PSE Functionality	No
Power Consumption (Max)	33 W
PoE Mode	
Single 5G	DC/2at → Full Mode ; Radios will be in (8×8|4×4) and USB Enabled 1at/2af → High Mode ; Radios will be in (8×8|4×4) and USB Disabled 1af → Low Mode ; Radios will be [2×2|2×2], Tx Power 10 dBm and USB Disabled
Dual 5G	DC/2at → Full Mode ; Radios will be in [4×4|4×4|4×4] and USB Enabled 1at/2af → High Mode ; Radios will be in [4×4|4×4|4×4] and USB Disabled 1af → Low Mode ; Radios will be [2×2|2×2|2×2], Tx Power 10 dBm and USB Disabled
Humidity	5% to 90% Non-Condensing
Operating / Storage Temp.	32°F to 122°F(0°C to 50°C) / -22°F to 158°F(-30°C to 70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	No
Mean Time Betw. Failures	>10 Years
Surge Protection Built In	No
Certifications	
Wi-Fi Alliance Certified	Yes (includes Passpoint)
DFS	FCC, IC, Europe, Brazil, and Taiwan
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

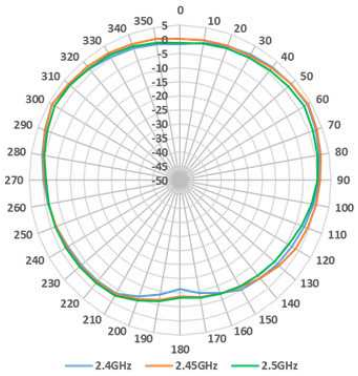
RF Rx/Tx Performance Table

FortiAP 831F								
	Radio 1		Radio 2		Radio 3			
Data rate	2.4 GHz Tx Power per chain (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity(dBm)	2.4 GHz Tx Power per chain (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity (dBm)
802.11b								
1 Mbps	21	-98	—	—	21	-96	—	—
11 Mbps	23	-89	—	—	18	-87	—	—
802.11g								
6 Mbps	20	-94	—	—	20	-92	—	—
54 Mbps	22	-75	—	—	18	-73	—	—
802.11n HT20								
MCS0	20	-93	—	—	20	-91	—	—
MCS7	20	-74	—	—	17	-72	—	—
802.11n HT40								
MCS0	17	-92	—	—	19	-90	—	—
MCS7	18	-73	—	—	17	-71	—	—
802.11ax HE20								
MCS0	21	-90	—	—	—	—	—	—
MCS11	17	-71	—	—	—	—	—	—
802.11ax HE40								
MCS0	17	-88	—	—	—	—	—	—
MCS11	17	-68	—	—	—	—	—	—
802.11a								
6 Mbps	—	—	20	-92	—	—	20	-90
54 Mbps	—	—	20	-72	—	—	17.5	-72
802.11n HT20								
MCS0	—	—	20	-91	—	—	20	-90
MCS7	—	—	19	-72	—	—	17.5	-71
802.11n HT40								
MCS0	—	—	20	-88	—	—	19	-88
MCS7	—	—	18	-69	—	—	16.5	-69
802.11ac VHT20								
MCS0	—	—	20	-91	—	—	19	-90
MCS9	—	—	19	-67	—	—	17.5	-67
802.11ac VHT40								
MCS0	—	—	20	-88	—	—	19	-88
MCS9	—	—	18	-62	—	—	16	-62
802.11ac VHT80								
MCS0	—	—	18	-85	—	—	18	-85
MCS9	—	—	17	-59	—	—	16	-58
802.11ax HE20								
MCS0	—	—	20	-90	—	—	—	—
MCS11	—	—	18	-66	—	—	—	—
802.11ax HE40								
MCS0	—	—	20	-87	—	—	—	—
MCS11	—	—	18	-61	—	—	—	—
802.11ax HE80								
MCS0	—	—	18	-94	—	—	—	—
MCS11	—	—	17	-58	—	—	—	—

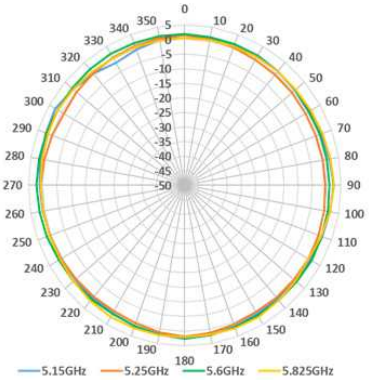
FAP 831F Antenna Radiation Patterns



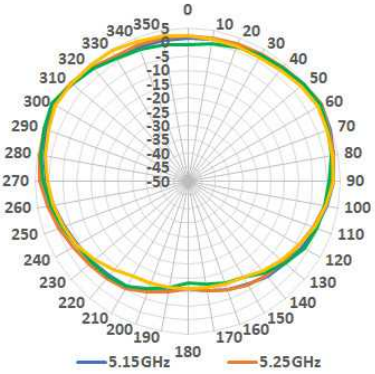
Radio1 2.4 GHz Horizontal



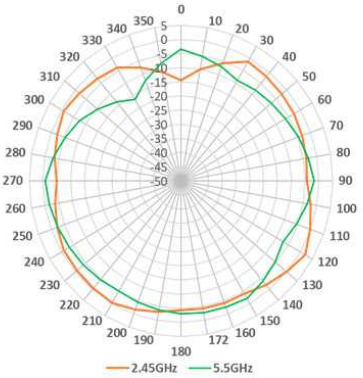
Radio1 2.4 GHz Vertical



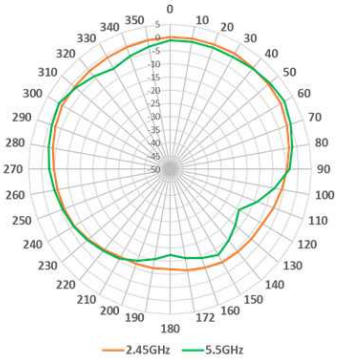
Radio2 5.0 GHz Horizontal



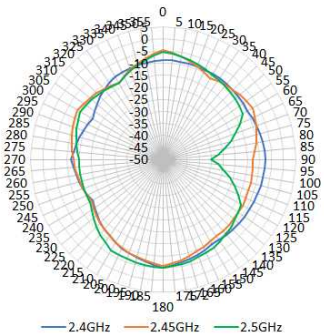
Radio2 5.0 GHz Vertical



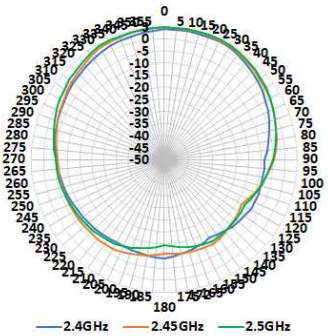
Scanning Radio Horizontal



Scanning Radio Vertical



BLE Radio Horizontal



BLE Radio Vertical

Highlights

FortiAP 432FR

This enterprise class 802.11ax ruggedized indoor/outdoor/industrial AP provides three radios and four spacial streams. As a top-of-the-line Wi-Fi 6 access point it provides OFDMA, a 2.5 Gigabit Ethernet port, plus an additional 1 Gbps Ethernet port with PoE out. The AP can provide 24/7 scanning across both bands while still providing access on both the 2.4 GHz and 5 GHz bands. The integrated BLE radio can be used for beacons and locationing applications.

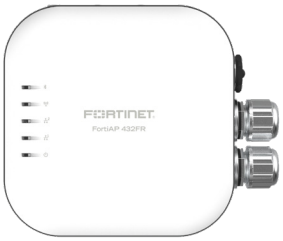
FAP-432FR is ideal for hazardous environments such as oil rigs, industrial manufacturing, and transportation sites.

802.11ax | Tri-Radio 2.4 GHz + 5 GHz + scanning | 6 External Antennas

4×4 MU-MIMO | Up to 1147 Mbps + 2402 Mbps



FAP-432FR



FAP-432FR

Specifications

FortiAP 432FR	
Hardware	
Hardware Type	Indoor / Outdoor / Industrial AP
Number of Radios	3 + 1 BLE
Number of Antennas	4 dual band WiFi + 1 dual band scanning + 1 single band 2.4 GHz BLE/ZigBee
Antenna Type Support	N-Type (5 total): Dual Band Antenna (5)
Antenna Type and Peak Gain	WiFi and scanning radio dual band antenna: 5.5 dBi in 2.4 GHz and 7.2 dBi in 5 GHz band BLE antenna: 5.0 dBi in 2.4 GHz band
Frequency Bands (GHz)*	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Radio 1 Capabilities	Frequency band: 2.4 GHz Channel width: 20/40MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 4×4 Service
Radio 2 Capabilities	Frequency band: 5.0 GHz Channel width: 4×4 20/40/80MHz and 2×2 160 MHz contiguous Modulation: BPSK, QPSK, QAM64, QAM256, and QAM1024 MIMO Chains: 4×4 Service
Radio 3 Capabilities	Frequency bands: 2.4 GHz and 5.0 GHz MIMO Chains: 1×1 Frequency Scanning
Maximum Data Rate	Radio 1: up to 1147 Mbps Radio 2: up to 2402 Mbps Radio 3: Frequency scanning only
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
Interfaces	1× 100/1000/2500 Base-T RJ45, 1 × 10/100/1000 Base-T RJ45 (802.3af PoE PSE), 1x RS-232 RJ45 Serial Port
MDI/MDIX	Supported Supported
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist
Maximum Tx Power (Conducted)	Indoor / Outdoor / Industrial: Radio 1: 2.4 GHz 29 dBm / 794 mW (4 chains combined)* Radio 2: 5 GHz 28 dBm / 630 mW (4 chains combined)* Radio 3: N/A
Kensington Lock	No
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i,802.11j, 802.11k, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax (Wi-Fi 6), 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.3bt, 802.3bz
SSIDs Supported	Local-Bridge, Tunnel, and Mesh
Per Radio Client Capacity	Up to 512 clients per radio (Radio1 and Radio2)
Cellular Co-existence	Yes
LED Off Mode	Yes
Advanced 802.11 Features	
OFDMA	Yes (UL and DL)
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No

FortiAP 432FR	
Onboard Security Functions	
UTP Capable	No
UTP Features	N/A
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
WIPS / WIDS radio modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	8.23 × 8.23 × 2.38 inches (209 × 209 × 60.5 mm)
Weight	5.12 lbs (2.325 kg)
Package (shipping) Weight	12.56.93 lbs (5.7 kg)
Accessories	
Mounting Options	Wall and Pole
Included Accessories	Wall and Pole mounting kit
Power Supply	802.3bt PoE, ships with PoE injector (reset functionality)
Optional Antennas (Professional Installer Required for FCC domains)**	FANT-04ABGN-0606-O-N FANT-04ABGN-1414-P-N FANT-04ABGN-8065-P-N
Environment	
CPU/RAM	Quad-core ARM Cortex-A53 2.2GHz / 1 GB
PSE functionality	Yes (while powered by PoE injector shipped with product)
Power Consumption (Maximum)	25 W without PSE out and 37.9 W with PSE out
PoE Mode	802.3bt PoE default (ships with Passive PoE injector Powered by 802.3at PoE - Operate in 4×4 mode with reduced Tx power Radio1/R2 17dBm This product only supports PSE functionality when it is powered by PoE injector that ships with the product.
Humidity	10% to 90% non condensing
Operating / Storage Temperature	-40°F to 140°F (-40°C to 60°C) / -50°F to 176°F (-58°C to 80°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	No
Mean Time Between Failures	> 10 Years
IP Rating	IP67
Surge Protection Built In	Yes
Hit-less PoE Failover	N/A
Certifications	
	FCC/ISED CE Marked UKCA Marked AS/NZS Radio Equipment Directive (RED) 2014/53/EU UL/IEC/EN 62368-1 IEC 60529 Class I Division 2 (CID2) EN 50385 EN 62311
Radio Equipment Directive (RED)	2014/53/EU
WiFi Alliance Certified	Yes (includes Pass point)
DFS	In Process
Hazardous Location	C1D2 Certified
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

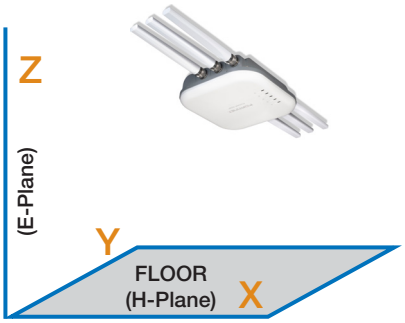
** Refer to the Fortinet Antenna datasheet here.

RF Rx/Tx Performance Table

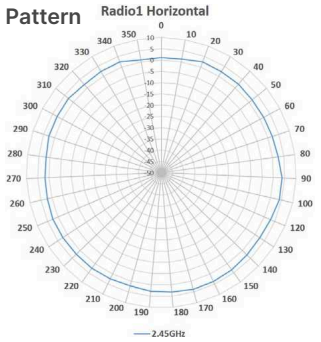
FortiAP 432FR							
	Radio 1		Radio 2		Radio 3 Scanning		
Data rate	2.4 GHz Tx Power per chain (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity (dBm)	2.4 GHz Tx Power per chain (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity (dBm)
802.11b							
1 Mbps	24	-99	—	—	20	—	-92
11 Mbps	24	-91	—	—	18	—	-91
802.11g							
6 Mbps	24	-94	—	—	20	—	-92
54 Mbps	23	-78	—	—	18	—	-77
802.11n HT20							
MCS0	24	-94	—	—	20	—	-92
MCS7	23	-75	—	—	17	—	-74
802.11n HT40							
MCS0	23	-92	—	—	19	—	-90
MCS7	22	-73	—	—	17	—	-72
802.11ax HE20							
MCS0	23	-90	—	—	—	—	—
MCS11	21	-71	—	—	—	—	—
802.11ax HE40							
MCS0	21	-91	—	—	—	—	—
MCS11	19	-72	—	—	—	—	—
802.11a							
6 Mbps	—	—	22	-92	—	20	-93
54 Mbps	—	—	22	-76	—	19	-76
802.11n HT20							
MCS0	—	—	22	-93	—	20	-93
MCS7	—	—	21	-74	—	19	-73
802.11n HT40							
MCS0	—	—	22	-91	—	19	-90
MCS7	—	—	21	-72	—	18	-71
802.11ac VHT20							
MCS0	—	—	22	-91	—	19	-93
MCS9	—	—	20	-72	—	18	-69
802.11ac VHT40							
MCS0	—	—	22	-91	—	19	-90
MCS9	—	—	19	-72	—	16	-64
802.11ac VHT80							
MCS0	—	—	20	-86	—	17	-88
MCS9	—	—	17	-62	—	17	-61
802.11ax HE20							
MCS0	—	—	22	-91	—	—	—
MCS11	—	—	19	-72	—	—	—
802.11ax HE40							
MCS0	—	—	22	-91	—	—	—
MCS11	—	—	19	-72	—	—	—
802.11ax HE80							
MCS0	—	—	20	-87	—	—	—
MCS11	—	—	18	-58	—	—	—

Antenna Radiation Patterns

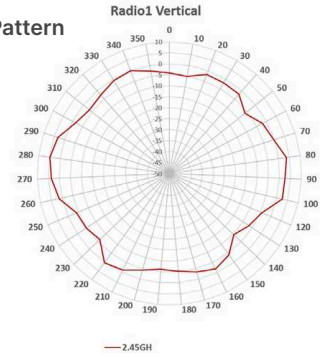
FAP-432FR

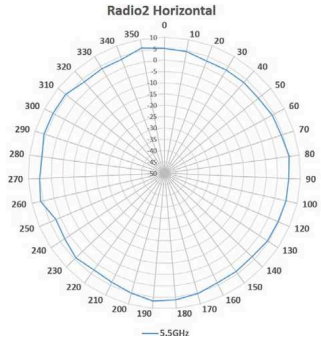


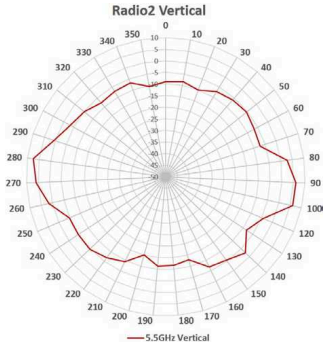
H-Plane Pattern

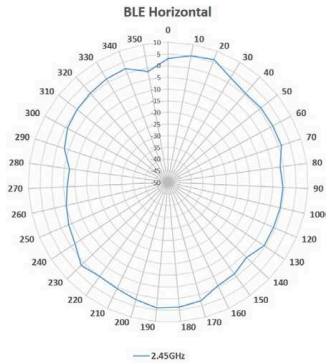


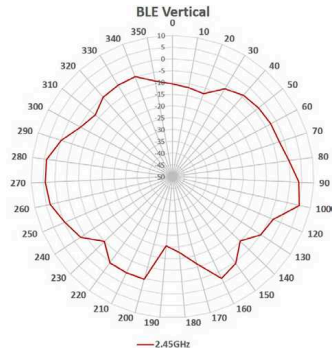
E-Plane Pattern

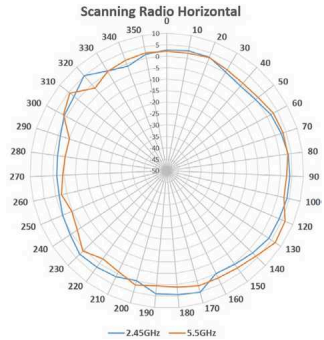


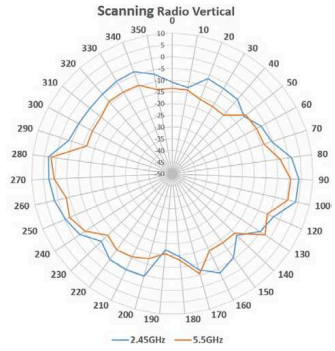












Highlights

FortiAP 23JF

This enterprise class Wi-Fi 6 wall plate AP provides three radios with internal antennas and two spacial streams, as well as features such as OFDMA and is PSE-capable. The AP can provide 24/7 scanning across both bands while still providing access on both the 2.4 GHz and 5 GHz bands. The integrated BLE radio can be used for beacons and locationing applications. Additional features include PoE out for downstream devices and RJ45 passthrough. This access point can be installed in minutes, right over the existing wall plate , or with the optional desk mount, makes a perfect remote / work from home AP.

802.11ax | Tri-Radio 5 GHz + 2.4 GHz + scanning | 3 Antennas

2×2 MU-MIMO | Up to 574 Mbps + 1200 Mbps + scanning



FAP-23JF

Specifications

	FortiAP 23JF
Hardware	
Hardware Type	Indoor walljack/desktop AP
Number of Radios	3 + 1 BLE
Number of Antennas	3 dual band internal Wi-Fi + 1 single band 2.4 GHz BLE/ZigBee
Antenna Type and Peak Gain	PCB antenna Dual band: 4.0 dBi in 2.4 GHz band and 4.0 dBi in 5 GHz band BLE antenna: 3.5 dBi in 2.4 GHz band
Frequency Bands (GHz)*	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Radio 1 Capabilities	Frequency band: 2.4 GHz Channel width: 20/40 MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Service
Radio 2 Capabilities	Frequency band: 5.0 GHz Channel width: 20/40/80 MHz Modulation: BPSK, QPSK, 64/256/1024 QAM MIMO Chains: 2×2 Service
Radio 3 Capabilities	Frequency bands: 2.4 GHz and 5.0 GHz MIMO Chains: 1×1 Frequency Scanning
Maximum Data Rate	Radio 1: up to 574 Mbps Radio 2: up to 1200 Mbps Radio 3: Frequency scanning only
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
Interfaces	4× 10/100/1000 Base-T RJ45 Ports (1× 802.3at PoE(PD), 1× 802.3af PoE (PSE), 2x Non-PoE Ports) 3 RJ-45 Ports (1xPass-through in, 1x Pass-through out, 1x RS-232 Serial Port)
MDI/MDIX	Supported Supported
Simultaneous SSIDs	Up to 8 per client serving radio (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, EAP-TTLS/PAP
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist
Maximum Tx Power (Conducted)	Radio 1: 2.4 GHz: 25 dBm / 158 mW (2 chains combined)* Radio 2: 5 GHz: 21 dBm / 158 mW (2 chains combined)* Radio 3: N/A
Kensington Lock	Yes
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i,802.11j, 802.11k, 802.11n, 802.11r, 802.11u, 802.11v, 802.11w, 802.11ac, 802.11ax (Wi-Fi 6), 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.3bz
SSID Types Supported	Local-Bridge, Tunnel, and Mesh
Per Radio Client Capacity	Up to 512 clients per radio (Radio1 and Radio2)
Cellular Co-existence	Yes
LED Off Mode	Yes

	FortiAP 23JF
Advanced 802.11 Features	
OFDMA	Yes (UL and DL)
Spatial Reuse (BSS Coloring)	Yes
UL MU-MIMO	Yes
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS	No
Onboard Security Functions	
UTP Capable	No
UTP Features	N/A
Wireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
WIPS / WIDS radio modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
Length x Width x Height	6.6 × 4.6 × 1.1 inches (168 × 117 × 28 mm)
Weight	0.99 lbs (0.45 kg)
Package (shipping) Weight	1.54 lbs (0.7 kg)
Accessories	
Mounting Options	Wall Plate, Optional Desk Mount FAP-MNT-WJ-20
Included Accessories	Standard Mount kit for Ceiling, T-Rail, and Wall
Power Supply	802.3at PoE: GPI-130 Optional DC power adaptor SP-FAP23J-PA-10
Environment	
CPU/RAM	23JF Quad-core ARM Cortex-A53 1.6GHz / 1 GB
PSE functionality	Yes
Power Consumption (Maximum)	17.5W without PSE out and 31W with PSE out
PoE Mode	802.3at PoE default(optional DC adaptor) Powered via DC power supply - Full System functionality + USB + PSE (8023af 15.4W) Powered by 802.3af - Only Radio functionality is operational (No USB/PSE supported) Powered by 802.3at - Full System functionality+ PSE(7w)
Humidity	10% to 90% non condensing
Operating / Storage Temperature	32°F to 122°F (0°C to 50°C) / -22°F to 158°F (-30°C to 70°C)
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	No
Mean Time Between Failures	> 10 Years
IP Rating	N/A
Surge Protection Built In	No
Hit-less PoE Failover	N/A
Certifications	
WiFi Alliance Certified	Yes (includes Passpoint)
DFS	FCC, IC, Europe, Japan, Brazil, Taiwan, and Korea
Warranty	
Limited Lifetime Warranty	Yes

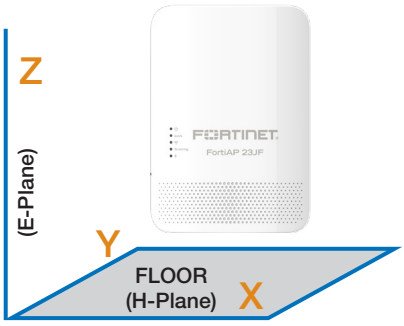
* Frequency selection, power, and some communication features may be restricted to abide by regional regulatory compliance laws.

RF Rx/Tx Performance Table

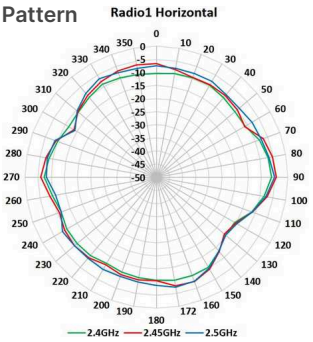
FortiAP 23JF							
	Radio 1		Radio 2		Radio 3 Scanning		
Data rate	2.4 GHz Tx Power per chain (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity (dBm)	2.4 GHz Tx Power per chain (dBm)	5 GHz Tx Power per Chain (dBm)	Rx Sensitivity (dBm)
802.11b							
1 Mbps	22	-98	—	—	20	—	-92
11 Mbps	20	-90	—	—	18	—	-91
802.11g							
6 Mbps	22	-93	—	—	20	—	-92
54 Mbps	20	-77	—	—	18	—	-77
802.11n HT20							
MCS0	22	-94	—	—	20	—	-92
MCS7	20	-76	—	—	17	—	-74
802.11n HT40							
MCS0	22	-92	—	—	19	—	-90
MCS7	20	-73	—	—	17	—	-72
802.11ax HE20							
MCS0	22	-90	—	—	—	—	—
MCS11	20	-71	—	—	—	—	—
802.11ax HE40							
MCS0	20	-90	—	—	—	—	—
MCS11	18	-70	—	—	—	—	—
802.11a							
6 Mbps	—	—	18	-93	—	20	-91
54 Mbps	—	—	18	-77	—	19	-75
802.11n HT20							
MCS0	—	—	19	-94	—	20	-90
MCS7	—	—	19	-75	—	19	-72
802.11n HT40							
MCS0	—	—	21	-91	—	19	-90
MCS7	—	—	20	-72	—	18	-71
802.11ac VHT20							
MCS0	—	—	21	-91	—	19	-93
MCS9	—	—	20	-72	—	18	-69
802.11ac VHT40							
MCS0	—	—	20	-91	—	19	-90
MCS9	—	—	18	-72	—	16	-64
802.11ac VHT80							
MCS0	—	—	19	-87	—	17	-88
MCS9	—	—	17	-64	—	17	-61
802.11ax HE20							
MCS0	—	—	20	-91	—	—	—
MCS11	—	—	18	-72	—	—	—
802.11ax HE40							
MCS0	—	—	19	-91	—	—	—
MCS11	—	—	17	-62	—	—	—
802.11ax HE80							
MCS0	—	—	18	-89	—	—	—
MCS11	—	—	16	-60	—	—	—

Antenna Radiation Patterns

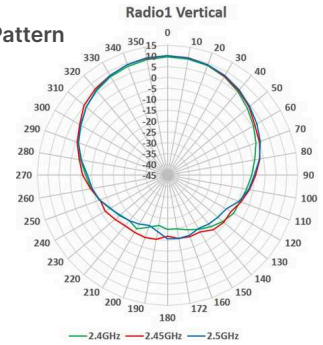
FAP-23JF

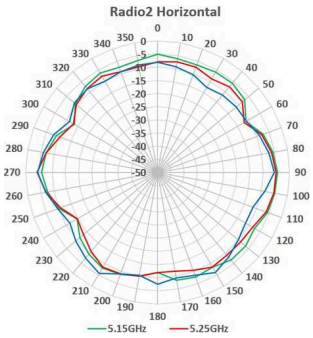


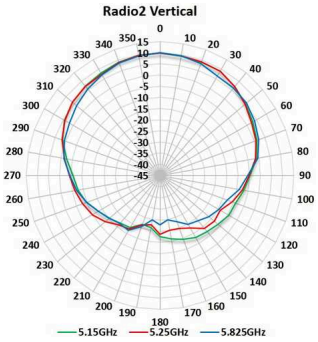
H-Plane Pattern

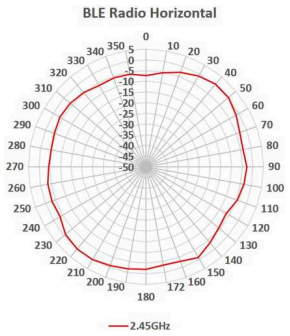


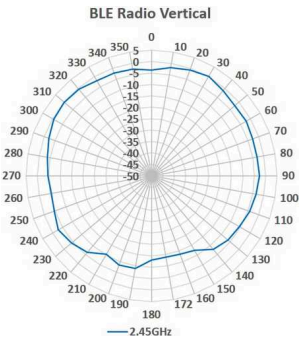
E-Plane Pattern

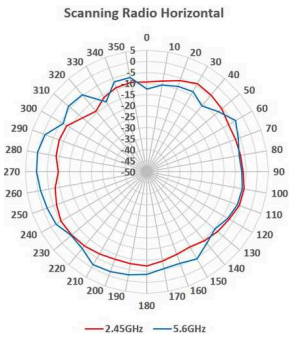


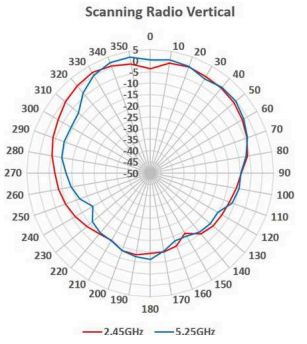












Ordering Information

Product	SKU	Description
FortiAP-443K	FAP-443K-[RC]	Indoor Wireless AP - 4 radios (Wi-Fi-7 Tri-band 2.4/5/6GHz 4+4+4 4 streams 4 radios), external antennas, 2× 10G Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3bt PoE injector. Region Code A.
	FC-10-FP43K-247-02-DD	FortiCare Premium Support.
	FC-10-FP43K-284-02-DD	FortiCare Elite Support.
	FC-10-FP43K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP-441K	FAP-441K-[RC]	Indoor Wireless AP - 4 radios (Wi-Fi-7 Tri-band 2.4/5/6GHz 4+4+4 4 streams 4 radios), internal antennas, 2× 10G Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3bt PoE injector.
	FC-10-FP41K-247-02-DD	FortiCare Premium Support.
	FC-10-FP41K-284-02-DD	FortiCare Elite Support.
	FC-10-FP41K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP-244K	FAP-244K	Outdoor Wireless AP - (Wi-Fi-7 Tri-band 2.4/5/6GHz 2+2+2 2 streams 4 radios), [Note: 6GHz band not available in all regulatory domains. Use of the 6GHz band subjects to regional regulatory authority approval] internal antennas, 1×10/100/1000 RJ45, 1× 100/1000/2500/5000/10000 Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. PoE injector included.. Region Code A.
	FC-10-F244K-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-F244K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
	FC-10-F244K-247-02-DD	FortiCare Premium Support.
	FC-10-F244K-284-02-DD	FortiCare Elite Support.
FortiAP-243K	FAP-243K-[RC]	Indoor Wireless AP - (Wi-Fi-7 Tri-band 2.4/5/6GHz 2+2+2 2 streams 4 radios), external antennas, 1×10/100/1000 RJ45, 1× 100/1000/2500/5000/10000 Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3at PoE injector GPI-130 or AC adapter SP-FAP400-PA. Region Code A
	FC-10-P243K-247-02-DD	FortiCare Premium Support.
	FC-10-P243K-284-02-DD	FortiCare Elite Support.
	FC-10-P243K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP-241K	FAP-241K-[RC]	Indoor Wireless AP - (Wi-Fi-7 Tri-band 2.4/5/6GHz 2+2+2 2 streams 4 radios), internal antennas, 1×10/100/1000 RJ45, 1× 100/1000/2500/5000/10000 Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3at PoE injector GPI-130 or AC adapter SP-FAP400-PA. Region Code A
	FC-10-P241K-247-02-DD	FortiCare Premium Support.
	FC-10-P241K-284-02-DD	FortiCare Elite Support.
	FC-10-P241K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP-231K	FAP-231K-[RC]	Indoor Wireless AP - (Wi-Fi-7 IEEE Tri-band 2.4/5/6GHz 2+2+2 2 streams 3 radios), internal antennas, 100/1000/2500/5000 Base-T RJ45, BT/BLE, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3at PoE injector GPI-130 or AC adapter SP-FAP200-PA-XX.
	FC-10-P231K-247-02-DD	FortiCare Premium Support.
	FC-10-P231K-284-02-DD	FortiCare Elite Support.
	FC-10-P231K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP-222KL	FAP-222KL	Outdoor Wireless LoRaWAN Gateway + Wireless AP - (Wi-Fi7 IEEE 802.11be Dual band 2.4/5 GHz operation 2+2 2 streams), External antennas (5), LTE, LoRaWAN chipset, 1× 100/1000/2500 Base-T RJ45, 1× 10/100/1000 Base-T RJ45 (PSE 802.3af), Console Port (RJ45). Pole/wall mount kit included. PoE injector included. Region Code A.
	FC-10-F22KL-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-F22KL-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
	FC-10-F22KL-247-02-DD	FortiCare Premium Support.
	FC-10-F22KL-284-02-DD	FortiCare Elite Support.
FortiAP 432G	FAP-432G-[RC]	Outdoor Wireless FortiAP - Tri radio (1× 802.11b/g/n/ax 4×4 radio, 1× 802.11a/n/ac/ax 4×4 Radio and 1× 802.11 a/b/g/n/ac/ax 6GHz, 2×2), 1× 10/100/1000/2500/10000 Base-T RJ45, 1× 10/100/1000 Base-T RJ45, BT/BLE + Zigbee, 1x RS-232 RJ45 Serial Port. External Dual Band N-Type Omni Directional antennas, Integrated mounting bracket for Antenna included + Wall/Pole Mount mounting kit. Ships with PoE injector.
	FC-10-P432G-247-02-DD	FortiCare Premium Support.
	FC-10-P432G-284-02-DD	FortiCare Elite Support.
	FC-10-P432G-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-P432G-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP 234G	FAP-234G-[RC]	Outdoor Wireless AP - Tri radio, WiFi 6E, included, 2× 2.5G RJ45 port, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Pole/wall mount kit included. Region Code A. Ships with PoE injector.
	FC-10-PG234-247-02-DD	FortiCare Premium Support.
	FC-10-PG234-284-02-DD	FortiCare Elite Support.
	FC-10-PG234-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-P234G-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.

Ordering Information

Product	SKU	Description
FortiAP 831F	FAP-831F-[RC]	Indoor Wireless AP - Tri radio (1× 802.11 a/b/g/n/ac/ax 4×4 MIMO, 1× 802.11 a/b/g/n/ac/ax 8×8 MIMO and 1× 802.11 a/b/g/n/ac Wave 2 1×1 MU-MIMO), internal antennas, 1× 100/1000/5000 Base-T RJ45, 1× 10/100/1000 Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order 802.3at PoE injector GPI-130 or AC adapter SP-FAP400-PA.
	FC-10-F831F-247-02-DD	FortiCare Premium Support.
	FC-10-P831F-284-02-DD	FortiCare Elite Support.
	FC-10-P831F-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-P831F-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP 432FR	FAP-432FR-[RC]	UL Class 1, Division 2 .Outdoor Wireless FortiAP - Tri radio (1× 802.11b/g/n/ax 4×4 radio, 1× 802.11a/n/ac/ax 4×4 Radio and 1× 802.11 a/b/g/n/ac Wave 2, 2×2), 1× 10/100/1000/2500 Base-T RJ45, 1× 10/100/1000 Base-T RJ45, BT/BLE + Zigbee, 1x RS-232 RJ45 Serial Port. External Dual Band N-Type Omni Directional antennas, Integrated mounting bracket for Antenna included + Wall/Pole Mount mounting kit. Ships with passive PoE injector.
	FC-10-FR432-247-02-DD	FortiCare Premium Support.
	FC-10-FR432-284-02-DD	FortiCare Elite Support.
	FC-10-FR432-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-FR432-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP 23JF	FAP-23JF-[RC]	Wall Plate AP - Tri radio (802.11 b/g/n/ax 2×2 MU-MIMO, 802.11 a/n/ac/ax 2×2 MU-MIMO and 1× 802.11 a/b/g/n/ac Wave 2, 1×1), internal antennas, 4× 10/100/1000 RJ45 port (1× 802.3at PoE PD, 1× 802.3af PoE PSE, 2x Non-PoE Ports), 2 RJ-45 Ports (1x Pass-through in, 1x Pass-through out), BT / BLE, 1x RS-232 RJ45 Serial Port. Wall plate mounting kit included. For power order 802.3at PoE injector GPI-130. Optional Accessory AC power adapter SP-FAP23J-PAX-10; Desktop stand FAP-MNT-WJ-20.
	FC-10-P23JF-247-02-DD	FortiCare Premium Support.
	FC-10-P23JF-284-02-DD	FortiCare Elite Support.
	FC-10-P23JF-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-P23JF-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
FortiAP 221K	FAP-221K-[RC]	Indoor Wireless AP - 4 ralndoor Wireless AP - (Wi-Fi-7 IEEE Dual-band 2.4/5GHz 2+2 2 streams 2 radios), internal antennas, 100/1000/2500 Base-T RJ45, BT/BLE, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3at PoE injector GPI-130 or AC adapter SP-FAP250-PA. Region Code Adios (Wi-Fi-7 Tri-band 2.4/5/6GHz 4+4+4 4 streams 4 radios), internal antennas, 2× 10G Base-T RJ45, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: 802.3bt PoE injector. Region Code *
	FC-10-P221K-247-02-DD	FortiCare Premium Support.
	FC-10-P221K-284-02-DD	FortiCare Elite Support.
	FC-10-PG221-595-02-DD	FortiSASE subscription for cloud managed FortiAP with bandwidth included.
	FC-10-P221K-314-02-DD	Forticare Essential Support for FortiAP. Available only for renewal and not with initial Hardware purchase.
UTP Services (G Series)	FC-10-APGIS-768-02-DD	FortiAP Series UTP Service FortiAP G/K Series FortiGuard Universal Threat Protection Subscription Service License for Application control and Web filtering modules. Applicable to FortiGate or FortiCloud managed G-Series and K Series models FortiAP 241/243K, FortiAP 441/443K, FAP-23JK FortiAP product family.
FortiManagement Cloud	FC-10-MGT0A-639-02-DD	FortiManagement Cloud Standard Subscription for all FortiAP Series. Includes cloud management, one-year log retention and FortiCare Premium.
Gigabit PoE Injector	GPI-115	1-port Gigabit PoE power injector, 802.3af 15.4 W, 10/100/1000.
	GPI-130	1-port Gigabit PoE power injector, 802.3at up to 30 W.
	GPI-145	1-port Multi-Gigabit PoE power injector, 802.3bt up to 60W.
Power Adapter	SP-FAP400-PA	AC power adapter 12v, 3.0A - 36W for FAP-431G, and FAP-831F.
	SP-FAP23J-PA-10	AC power adapter 48v, 1.04A - 50W without power cord for FAP-23JF.
	SP-FAP250-PA-10	AC power adapter 12v, 4.0A - 48W with Extended operating temp 0°C - 50°C with US and EU plugs for FAP-431G, FAP-441K, and FAP-443K.
Desktop Stand	FAP-MNT-WJ-20	Desktop stand for FAP/FAP-C/FAP-U wall jack style APs. Converts wall mounting hardware included with unit to desktop mounting - 20 pack.
	FAP-DESK-JK-10pk	Desktop stand for FAP23JK/FAP23JF wall jack style APs. Converts wall mounting hardware included with unit to desktop mounting - 10 pack.

Notes.

1.Additional external antenna options available for some models. See antenna datasheet for details.

2.[RC](regional code): A, B, C, D, E, EO, F, I, J, K, N, P, S, T, U, V, W or Y, applies to all AP models based upon country of deployment. Work with your local supplier for the correct model in your regulatory domain.

3.Access Points mentioned in this datasheet are covered by a Limited Lifetime Hardware Warranty. Terms and conditions can be found in the EULA at https://www.fortinet.com/content/dam/fortinet/assets/legal/EULA.pdf

For more information on Support levels, please reference FortiCare Services here.

Visit https://www.fortinet.com/resources/ordering-guides for related ordering guides.

Fortinet Corporate Social Responsibility Policy

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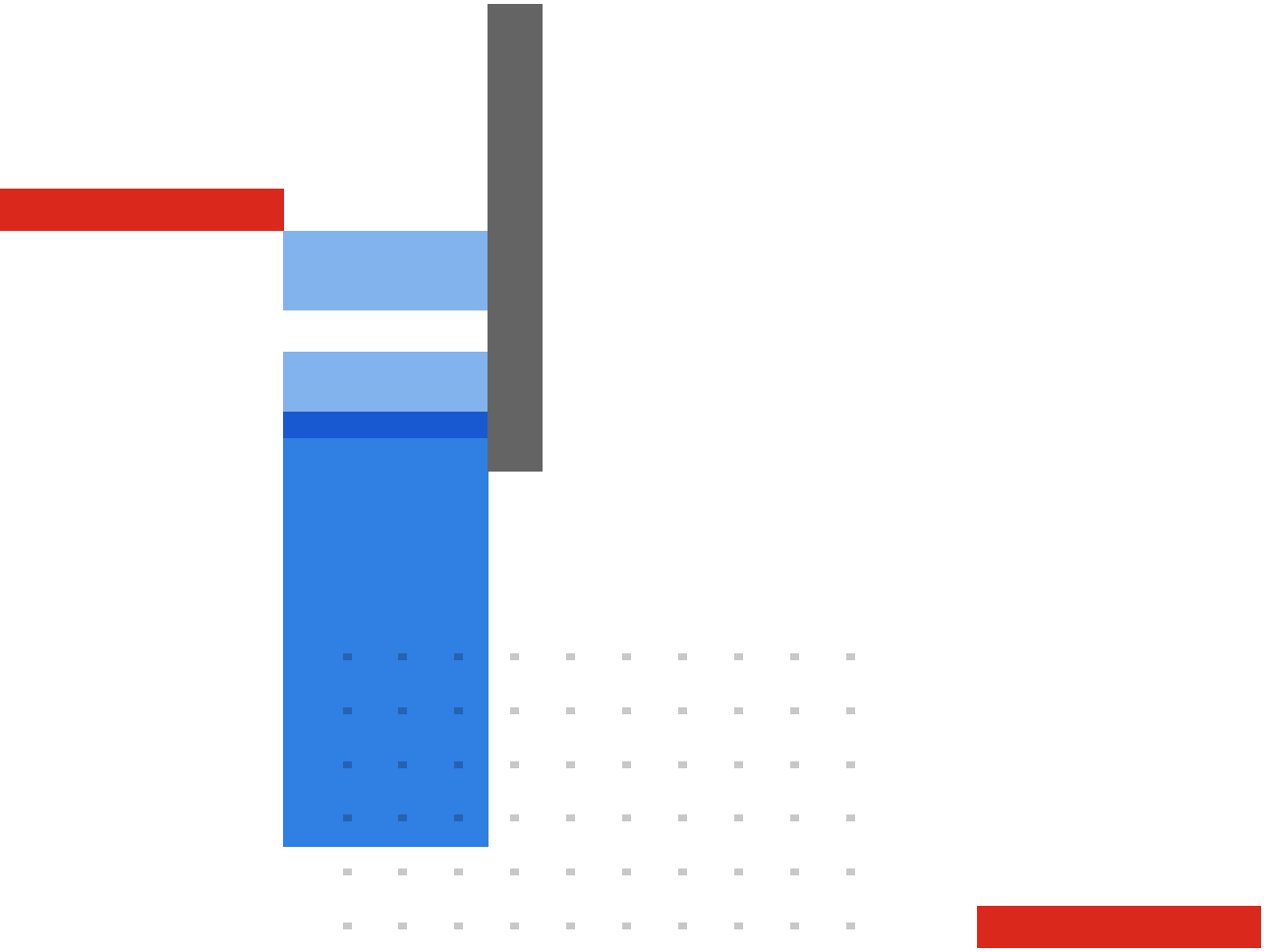

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