



# FortiAP<sup>™</sup> UTP Access Point Series



#### Highlights

Intelligently supports integrated security controllers and cloud management options

Establishes a new benchmark in flexibility, performance, and security

Wi-Fi 6 technology with data rates up to 4.8 Gbps and OFDMA improves client throughput and overall network efficiency

Provides unparalleled cybersecurity protection with Fortinet's Security Fabric integration and FortiGuard services

### **Unified Threat Protection Capable Access Points\***

The FortiAP-U family offers a wide range of models with the additional power of FortiGuard services and the flexibility of dual 5 GHz support for Wi-Fi 6 APs. Perfect for everything from a large campus to hundreds of branch locations, the FortiAP-U family has a variety of form factors and performance levels. FortiAP-U access points are managed centrally by the integrated WLAN controller of any FortiGate® security appliance or through the FortiLAN Cloud provisioning and management portal. Protect your LAN Edge from the campus to the branch with these high capacity capable APs. **Product Offerings** 

#### Available in

•••••

Appliance

802.11ax Wi-Fi 6		
FAP-U431F and FAP-U433F	4×4 Indoor tri-radio dual 5G 11ax APs	
FAP-U432F	4×4 Indoor/Outdoor tri-radio dual 5G 11ax APs	
FAP-U231F	2×2 Indoor tri-radio dual 5G 11ax APs	
FAP-U234F	2×2 Indoor/Outdoor tri-radio dual 5G 11ax APs	
802.11ac W	/ave 2 (Wi-Fi 5)	
FAP-U422EV	4×4 Outdoor AP, with dual radios	

### Highlights

Fortinet UTP access points are designed to support a variety of deployments from branches, to medium to large offices, schools, universities, hospitals, hotels, and large retail stores. These access points can serve such a wide range of applications because they can be managed by any of Fortinet's control and management. By supporting UTP services at the edge, deployments have the flexibility to enable security services wherever they need them in their network.

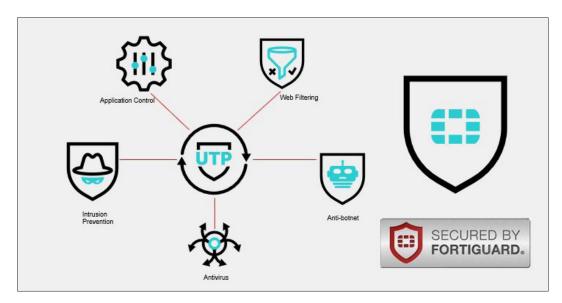


Figure 1 — FortiGuard Services

### **Education**

The Education sector is at rising risk from cyber attacks. In conjunction with requirements to protect minors from inappropriate materials, this can make deploying wireless a challenge. Our integrated secure wireless controller (FortiGate) ensures secure student access to learning resources while FortiGuard services provides cybersecurity protection.

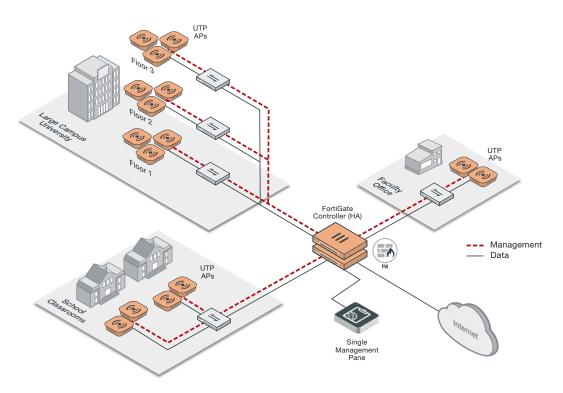


Figure 2 — Educational organizations with UTP APs managed by on-premise or centralized FortiGate controllers.

### Healthcare

Patient safety is priority one. Fortinet UTP APs empower hospitals to improve patient safety by enabling life-critical applications such as telemetry requiring low bandwidth but exceptionally high reliability. Our dedicated wireless controllers (integrated WLAN controller of any FortiGate security appliance) connected to our access points ensures patient safety remains paramount, while providing improved performance for wireless enabled medical devices.

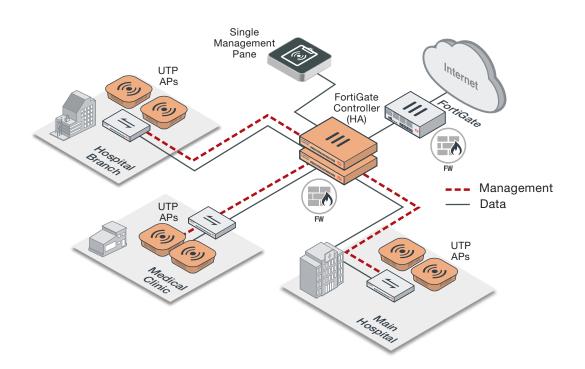


Figure 3 — Healthcare organizations with UTP APs managed by on-premise or centralized FortiGate acting as a Wireless controller.

### **Small/Medium Business**

Retailers can streamline Wi-Fi store deployments through the combination of UTP APs and FortiLAN Cloud management. This scenario, in combination with FortiDeploy for zero-touch provisioning and deployment, offers a cost-effective and secure solution for retail IT.

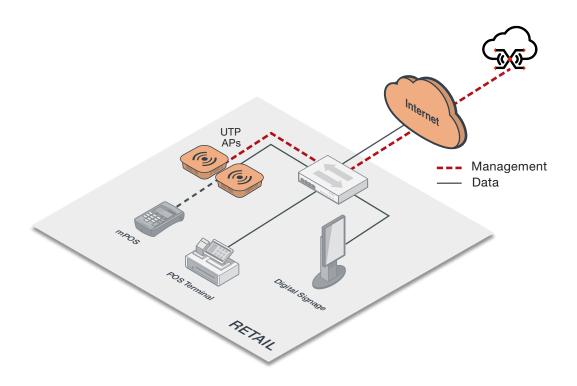


Figure 4 — Retail store with UTP APs managed by FortiLAN Cloud.

These enterprise class Wi-Fi6 (802.11ax) indoor APs provide three radios. These top-of-theline access points provide OFDMA, a 2.5 Gigabit Ethernet port plus an additional 1 Gbps Ethernet port for PoE diversity. The APs can be configured for dual 5 GHz band access while still providing coverage for devices on the 2.4 GHz band, or can be configured to offer dedicated scanning. The integrated BLE radio can be used for beacons and locationing applications.

🔊 802.11ax | Tri-Radio 5 GHz + 5 GHz + 2.4 GHz or 5 GHz + 2.4 GHz + scanning | 10 Antennas

#### 4×4 MIMO | Up to 4,804 Mbps + 4,804 Mbps + 300 Mbps

#### Specifications

	FortiAP-U431F	FortiAP-U433F
Hardware		
Hardware Type	Indoor AP	Indoor AP
Number of Radios	3 + 1 BLE	3 + 1 BLE
Number of Antennas	10 Internal + 1 BLE Internal	10 External (RP-SMA) + 1 BLE Internal
Antenna Type and Peak Gain	PIFA 4 dBi for 2.4 GHz, 6 dBi for 5 GHz	Dipole 3.5 dBi for 2.4 GHz, 5 dBi for 5 GHz
Frequency Bands (GHz)	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Radio 1 Capabilities	5.0 GHz a/n/ac/ax (4×4:4 stream) 20/40/80/160 MHz (64/256/1024 QAM)	5.0 GHz a/n/ac/ax (4×4:4 stream) 20/40/80/160 MHz (64/256/1024 QAM)
Radio 2 Capabilities	2.4 GHz or 5.0 GHz (high band) a/b/g/n/ac/ax (4×4:4 stream) 20/40/80/160 MHz (64/256/1024 QAM)	2.4 GHz or 5.0 GHz (high band) a/b/g/n/ac/ax (4×4:4 stream) 20/40/80/160 MHz (64/256/1024 QAM)
Radio 3 Capabilities	2.4/5.0 GHz dual band b/g/n/ac (2×2:2 stream) 20/40 MHz (64 QAM)	2.4/5.0 GHz dual band b/g/n/ac (2×2:2 stream) 20/40 MHz (64 QAM)
Maximum Data Rate	Radio 1 up to 4,804 Mbps Radio 2 up to 4,804 Mbps Radio 3 up to 300 Mbps	Radio 1 up to 4,804 Mbps Radio 2 up to 4,804 Mbps Radio 3 up to 300 Mbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 4 dBm max TX power	Bluetooth scanning and iBeacon advertisement @ 4 dBm max TX power
Interfaces	1× 10/100/1000/2500 Base-T RJ45, 1× 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port	1× 10/100/1000/2500 Base-T RJ45, 1× 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3at or dual 802.3af power	Dual redundant PoE power ports with support for IEEE 802.3at or dual 802.3af power
Simultaneous SSIDs	Up to 16 (24 if third radio is servicing clients)	Up to 16 (24 if third radio is servicing clients)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST
User/Device Authentication	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist	WPA™, WPA2™, and WPA3™ with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist
Maximum Tx Power (Conducted)	Radio 1 5 GHz 24 dBm / 251 mW (4 chains combined)* Radio 2 2.4 GHz 26 dBm / 398 mW (4 chains combined)* 5 GHz 24 dBm / 251 mW (4 chains combined)* Radio 3 2.4 GHz 22 dBm / 158 mW (2 chains combined)*	Radio 1 5 GHz 24 dBm / 251 mW (4 chains combined)* Radio 2 2.4 GHz 26 dBm / 398 mW (4 chains combined)* 5 GHz 24 dBm / 251 mW (4 chains combined)* Radio 3 2.4 GHz 22 dBm / 158 mW (2 chains combined)*
Kensington Lock	Yes	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, 802.11v, 802.11w, 802.11ac, 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.11ax, 802.3bz, Wi-Fi 6	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11w, 802.11ac, 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.3bz Wi-Fi 6
SSID Types Supported	Local-Bridge, Mesh, & Tunnel	Local-Bridge, Mesh, & Tunnel
Per Radio Client Capacity	Up to 512 per Radio1 and Radio2	Up to 512 per Radio1 and Radio2
Cellular Co-existence**	Yes	Yes
Reset Button	Yes	Yes
Threat Protection Capable	Yes	Yes
LED Off Mode	Yes	Yes

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

\*\* Additional filtration added to reduce interference in 2.4GHz band from nearby cellular equipment.



#### Specifications

	FortiAP-U431F	FortiAP-U433F
Advanced 802.11 Features		
Transmit Beam Forming (TxBF)	Yes	Yes
Low-Density Parity Check (LDPC) Encoding	Yes	Yes
Maximum Likelihood Demodulation (MLD)	Yes	Yes
Maximum Ratio Combining (MRC)	Yes	Yes
A-MPDU and A-MSDU Packet Aggregation	Yes	Yes
OFDMA	Yes (UL and DL)	Yes (UL and DL)
2.4 GHz OFDMA	Yes	Yes
Spatial Reuse (BSS Coloring)	Yes	Yes
HE-MU-MIMO	Yes	Yes
UL-MU-MIMO 802.11ax mode	Yes	Yes
UL-MU-MIMO 802.11ac mode	No	No
DL-MU-MIMO	Yes	Yes
Enhanced Target Wake Time (TWT)	Yes	Yes
ZeroWait DFS /Agile DFS	Yes	Yes
Wireless Monitoring Capabilities		
Rogue Scan Radio Modes	Background, Dedicated	Background, Dedicated
WIPS / WIDS Radio Modes	Background, Dedicated (recommended)	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes	Yes
Spectrum Analyzer	Yes	Yes
Dimensions		
Length x Width x Height	8.46 × 8.46 × 2.26 inches (215 × 215 × 57.5 mm)	8.46 × 8.46 × 2.26 inches (215 × 215 × 57.5 mm)
Weight	2.6 lb (1.2 kg)	2.6 lb (1.2 kg)
Package (shipping) Weight	3.5 lb (1.6 kg)	3.95 lb (1.8 kg)
Mounting Options	Ceiling, T-Rail, and Wall	Ceiling, T-Rail, and Wall
Included Accessories	Mount kits for Ceiling, T-Rail, and Wall	Mount kits for Ceiling, T-Rail, and Wall, 10x dipole antennas
Environment		
Power Supply	GPI-130, or 2x GPI-115 GPI-130, or 2x GPI-115, or AC adapter SP-FAP43F-PA-X-5	GPI-130, or 2x GPI-115 GPI-130, or 2x GPI-115, or AC adapter SP-FAP43F-PA-X-5
Power Consumption (Maximum)	24.5 W	24.5 W
Humidity	10–90% Non-Condensed 5–90% Condensed	10–90% Non-Condensed 5–90% Condensed
Operating / Storage Temperature	32-122°F (0-50°C) / -31-158°F (-35-70°C)	32-122°F (0-50°C) / -31-158°F (-35-70°C)
Directives	Low Voltage Directive • RoHS	Low Voltage Directive • RoHS
UL2043 Plenum Material	Yes	Yes
Mean Time Between Failures	>30 Years	>30 Years
IP Rating	_	_
Surge Protection Built In	—	—
Hit-less PoE Failover	Yes (802.3at only)	Yes (802.3at only)
Certifications		
Wi-Fi Alliance Certified	Yes	Yes
DFS	FCC, IC, CE, Japan, Taiwan, Korea, Brazil	FCC, IC, CE, Japan, Taiwan, Korea, Brazil
Warranty		
Limited Lifetime Warranty	Yes	Yes
,		

#### RF RX/TX Performance Table

FortiAP U431F and U433F							
	R	adio 1	Ra	adio 2	R	Radio 3	
	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	
2.4 GHz, 802.11b							
1 Mbps	20	-98	_	—	19	-96	
11 Mbps	20	-89	—	—	19	-87	
2.4 GHz, 802.11g							
6 Mbps	20	-94	—	—	19	-92	
54 Mbps	20	-75	_	_	19	-73	
2.4 GHz, 802.11n HT20							
MCS0	19	-93	—	—	18	-91	
MCS7	17	-74	_	_	16	-72	
2.4 GHz, 802.11n HT40							
MCS0	19	-92	—	—	18	-90	
MCS7	17	-73	_	_	16	-71	
2.4 GHz, 802.11ax HE20							
MCS0	18	-90	—	—	17	-88	
MCS11	16	-71	_	_	15	-69	
2.4 GHz, 802.11ax HE40							
MCS0	17	-88	—	—	16	-86	
MCS11	15	-68	_	_	14	-66	
5.0 GHz, 802.11a							
6 Mbps	20	-92	20	-92	_	_	
54 Mbps	20	-72	20	-72	_	_	
5.0 GHz, 802.11n HT20							
MCS0	20	-91	20	-91	_	_	
MCS7	18	-72	18	-72	_	_	
5.0 GHz, 802.11n HT40							
MCS0	20	-88	20	-88	_	_	
MCS7	18	-69	18	-69	_	_	

#### RF RX/TX Performance Table

FortiAP U431F and U433F							
	R	adio 1	R	Radio 2		Radio 3	
	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	
5.0 GHz, 802.11ac VHT20							
MCS0	20	-91	20	-91	_	—	
MCS9	18	-67	18	-67	—	—	
5.0 GHz, 802.11ac VHT40							
MCS0	20	-88	20	-88	_	_	
MCS9	18	-62	18	-62	_	_	
5.0 GHz, 802.11ac VHT80							
MCS0	19	-85	19	-85	_	_	
MCS9	17	-59	17	-59	_	_	
5.0 GHz, 802.11ac VHT160							
MCS0	16	-82	16	-82	_	_	
MCS9	15	-56	15	-56	_	_	
5.0 GHz, 802.11ax HE20							
MCS0	19	-90	19	-90	_	_	
MCS11	17	-66	17	-66	_	_	
5.0GHz, 802.11ac HE40							
MCS0	19	-87	19	-87	_	_	
MCS11	17	-61	17	-61		_	
5.0 GHz, 802.11ac HE80							
MCS0	18	-94	18	-94	_	_	
MCS11	16	-58	16	-58	_	_	
5.0 GHz, 802.11ac HE160							
MCS0	15	-81	15	-81	_	_	
MCS11	14	-55	14	-55	_	_	

Maximum capability of the hardware provided (excluding antenna gain)

# **Antenna Radiation Patterns**

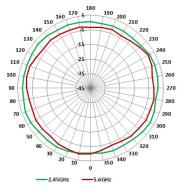


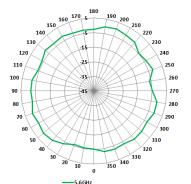


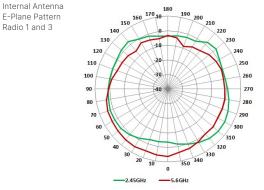
Radio 1 and 3

Dual Band

Dual Band





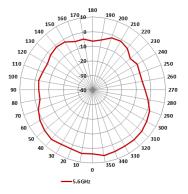




Internal Antenna

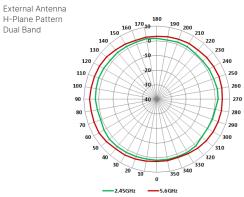
H-Plane Pattern

Radio 2



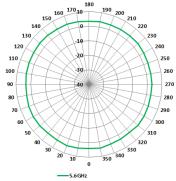
#### FAP-U433F

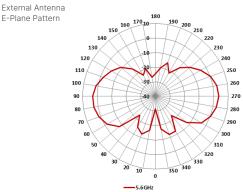




External Antenna E-Plane Pattern 170 10 , 310 350 340 \_\_\_\_\_2.45GHz 







This enterprise class 802.11ax ruggedized indoor/outdoor AP provides three radios. 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 be configured for dual 5 GHz band access while still providing coverage for devices on the 2.4 GHz band, or can be configured to offer dedicated scanning. The integrated BLE radio can be used for beacons and locationing applications.



#### 🔊 802.11ax | Tri-Radio 5 GHz + 5 GHz + 2.4 GHz or 5 GHz + 2.4 GHz + scanning | 10 Antennas

#### 4×4 MIMO | Up to 4,804 Mbps + 4,804 Mbps + 300 Mbps

#### Specifications

	FortiAP-U432F
Hardware	
Hardware Type	Outdoor AP
Number of Radios	3 + 1 BLE
Number of External Antennas	11
Antenna Type and Peak Gain	Dual band Dipole Omni Directional Peak Gain 5.5dBi for 2.4GHz and 7dBi for 5.0GHz
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	2.4 GHz a/b/g/n (4×4 4stream) (64 QAM) or 5.0 GHz (high band) a/b/g/n/ac/ax (4×4 4 stream) 20/40/80/160 MHz (64/256/1024 QAM)
Radio 2 Capabilities	5.0 GHz a/b/g/n/ac/ax (4×4 4 stream) 20/40/80/160 MHz (64/256/1024 QAM)
Radio 3 Capabilities	2.4/5.0 GHz dual band b/g/n/ac (2×2 2 stream) 20/40 MHz (64 QAM)
Maximum Data Rate	Radio 1 up to 4,804 Mbps Radio 2 up to 4,804 Mbps Radio 3 up to 300 Mbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
Interfaces	1× 100/1000/2500 Base-T RJ45(802.3bt PoE) , 1 × 10/100/1000 Base-T RJ45 (802.3af PSE OUT),  1x RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	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.
Simultaneous SSIDs	Up to 16 (24 if third radio is servicing clients)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST
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 29 dBm / 794 mW (4 chains combined)* 5.0 GHz 28 dBm / 630 mW (4 chains combined)* Radio 2 5.0 GHz 26 dBm / 400 mW (2 chains combined)* Radio 3 2.4 GHz 26 dBm / 400 mW (2 chains combined) 5.0 GHz 24 dBm / 251 mW (2 chains combined)*
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, 802.11v, 802.11w, 802.11ac, 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3at, 802.3az, 802.11ax, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 per Radio1 and Radio2
Cellular Co-existence**	Yes
LED Off Mode	No

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

\*\* Additional filtration added to reduce interference in 2.4GHz band from nearby cellular equipment.

### Specifications

	FortiAP-U432F
Advanced 802.11 Features	Yes
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU Packet Aggregation	Yes
OFDMA	Yes (UL and DL)
2.4 GHz OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
HE-MU-MIMO	Yes
UL-MU-MIMO 802.11ax mode	Yes
UL-MU-MIMO 802.11ac mode	No
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS /Agile DFS	Yes
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	4.85 lb (2.2 kg)
Package (shipping) Weight	11.65 lb (5.3 kg)
Mounting Options	Wall and Pole
Included Accessories	1-3. Wall/ Pole/ Sector Ant. bracket 4. POE adapter 5. Power cable - PIN060 6. Grounding cable 7. Mounting Kit (Pole straps; mounting bolts, screws; grounding screws) 8. External Ant.(2.4GHz; 5GHz; 2.4/5GHz)
Environment	
Power Supply	802.3bt (ships with passive PoE injector with build in reset switch)
PSE Functionality	Yes (while powered by PoE injector shipped with product)
Power Consumption (Maximum)	32W max (without PSE) & 45W max (with PSE 12.99W)
Humidity	10–90% Non-Condensing
Operating / Storage Temperature	-40° - 140°F (-40° - 60°C) / -50°-176°F (-58° -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	
Wi-Fi Alliance Certified	Yes
DFS	FCC, IC, CE
Warranty	
Limited Lifetime Warranty	Yes
······································	

### RF RX/TX Performance Table

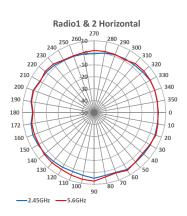
		FortiAP U432F		
	2.4	l GHz	5	GHz
	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)
802.11 b				
1 Mbps	22	-93	_	
11 Mbps	21	-93	—	—
802.11 a/g				
6 Mbps	21	-93	20	-91
54 Mbps	19	-75	17	-74
802.11 n HT20				
MCS0	21	-91	20	-91
MCS7	19	-71	16	-72
802.11 n HT40				
MCS0	20	-89	19	-88
MCS7	19	-69	16	-69
802.11 ac/ax VHT20				
MCS0	21	-91	19	-91
MCS8	18	-68	18	-69
802.11 ac/ax VHT40				
MCS0	20	-89	19	-88
MCS9	17	-66	16	-64
MCA 10 (QAM 1024)			15	-62
MCA 11 (QAM 1024)			15	-62
802.11 ac/ax VHT80				
MCS0			19	-85
MCS9			15	-61
MCA 10 (QAM 1024)			14	-60
MCA 11 (QAM 1024)			14	-60
302.11 ac/ax VHT160				
MCS0			17	-83
MCS9			13	-59
MCA 10 (QAM 1024)			13	-58
MCA 11 (QAM 1024)			13	-58

**Pole/Wall Mounting Position** 

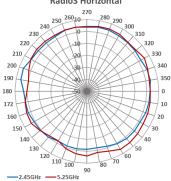


### FortiAP U432F

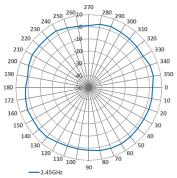
#### **Antenna Radiation Patterns**

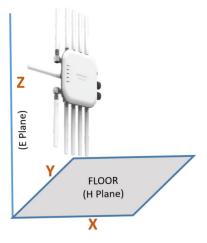


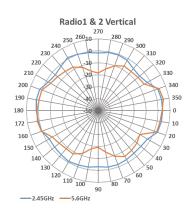


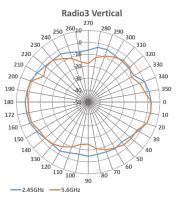


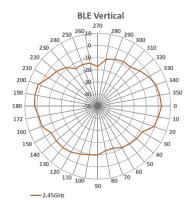
**BLE Horizontal** 











#### **Data Sheet**

# FortiAP U231F

This enterprise class Wi-Fi 6 (802.11ax) indoor AP provides three radios as well as features such as OFDMA and dual 1 Gbps Ethernet ports for PoE diversity. The APs can be configured for dual 5 GHz band access while still providing coverage for devices on the 2.4 GHz band, or can be configured to offer dedicated scanning. The integrated BLE radio can be used for beacons and locationing applications.



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

#### 2×2 MIMO | Up to 1,201 Mbps + 1,201 Mbps + 574 Mbps

#### Specifications

Individual Type     Indicor AP       Number of Radios     3 + 18.E       Number of Radios     3 + 18.E       Number of Radios     4 Dala Januar Wirth + 2 Storder Wirth + 1 Single band S.A.Gerbe Z.E.E.Z.gebee       Anterna Type and Peak Gain     Dual band * 12 Storder Wirth + 1 Single band S.A.Gerbe Z.       Frequency Bands (OH2)     East anterna 3.58 dia 10 for SOHz band       Radio 1 Capabilities     Band 2.4 GHc of SO GHz JHgin Bandi adEghnologick (2*2 2 stream). Channel witht 2014/05/00/4/2; 000000       Radio 2 Capabilities     5.0 GHz JHgin Bandi adEghnologick (2*2 2 stream). Channel witht 2014/05/00/4/2; 000000       Radio 3 Capabilities     5.0 GHz JHgin Bandi adEghnologick (2*2 2 stream). Channel witht 2014/05/00/4/2; 000000       Radio 3 Capabilities     Service (2*2 2 stream). Channel witht 2014/05/00/4/2; 0000000       Radio 3 Capabilities     Channel witht 2014/05/00/4/2; 0000000       Maximum Data Rate     Service (2*2 2 stream). Channel witht 2014/05/00/4/2; 0000000       Buttortot Low Energy Radio     Bluetoch scaming and Bancon sckwet itservice big/nd/ac       Power over Ethernet (Po6E)     1 * 802.al PC stirth heard aded (2*10)       Simultaneous SIDB     Up to 12 A HE stirth Heard aded (2*10)       Channel witht 2014/05/00/4/2; 20 gem 200000     Parked 1       Radio 2 Capabilities     Sol2 Heard (1*1)       Sol2 Hoard Channel Service (2*2 stream). Channel witht 2014/05/00/4/2; 20 gem 2000000       Buttortot Low Energy Radio     B		FortiAP U231F
Number of Radios         3 + 1BLE           Number of Antennas         4 Dual band Wi-Fit + 25 fold:tw Wi-Fit + 15 ingle band 2.40Hz Bit E7/20gibe.           Antenna Type and Peak Gain         Diff America           Dual band 2.90 fb/sz. Addits and 5.80 dbit for 5.0Hz         Single band 3.00 fb/sz. Addits and 5.80 dbit for 5.0Hz           Frequency Bands (GHz)         Early and Peak Gain         Solid to 2.40Hz and 5.80 dbit for 5.0Hz           Radio 1 Capabilities         Band 2.4 CHz et or 5.0 Hz Hz Addits Pand Pand Pand Pand Pand Pand Pand Pand	Hardware	
Number of Antennas       4 Dual band Wi-Fi + 2 50.GHz Wi-Fi + 1 Single band 2.4GHz BLEZ2gBee         Anterna Type and Peak Gain       DFA antenna         Dival band 3.97 GB for 2.4GHz and 5.89 GB for 5GHz Single band 2.4GHz band BLE antenna 5.5GH for 2.4GHz band         Frequency Bands (GHz)         Radio 1 Capabilities       Band 2.4GHz band BLE antenna 5.5GH for 2.4GHz band         Bald 2 Capabilities       5.0 GHz firling handl a/blg/h/acfax (2x2 2 stream)         Radio 3 Capabilities       5.0 GHz antenna with 2.04GPB and 2.0GHz         Radio 3 Capabilities       5.0 GHz antenna firling David A/GHz and 2.0GHZ and A/GHZ AND	Hardware Type	Indoor AP
Antenna Type and Peak Gain       PFR autom         Prequency Bands (GHz)       Band 2 4 GHz of 5.0 GHz/GHz Band 3/5/H gift GFZ 4/GHz band         Radio 1 Capabilities       Channel Width 20/4/(B)/Marc/ax (2+2 2 Stream)         Channel Width 20/4/(B)/Marc/ax (2+2 2 Stream)       Channel Width 20/4/(B)/Marc/ax (2+2 2 Stream)         Radio 2 Capabilities       5.0 GHz/Hz ab/gift/ac/ax (2+2 2 Stream)         Radio 2 Capabilities       5.0 GHz/Hz ab/gift/ac/ax (2+2 2 Stream)         Radio 3 Capabilities       Service (2+2 2 stream)         Biletoth Low Energy Radio       Bluetocht scanning and Elecon advertisement (% 10 Bm max TX power         Interfaces       2 × 10/10/10/00 Base-T RJ45, 1x Type 2.0 USB, 1x RS-232 RJ45 Service D/P/14/R         Simutanceus SIDs       U to 10 Lift Tittri diad is servicing cleint)         Lee/Tower Channel Widt 20/4/(Service Parties, EAP-TILS, EAP-	Number of Radios	3 + 1 BLE
Arrisking band Share and	Number of Antennas	4 Dual band Wi-FI + 2 5.0GHz Wi-Fi + 1 Single band 2.4GHz BLE/ZigBee
Radio 1 Capabilities       Band 2.4 GHz or 5.0 GHz (High Band) alb/gh/ac/az (2×2 2 stream) Charmel width 20/40/80MHz; Modulation BSK, QPSK, QL25010224 CAM         Radio 2 Capabilities       5.0 GHz alb/gh/ac/az (2×2 2 stream). Channel width 20/40/80MHz; Modulation BSK, QPSK, QL2501024 CAM         Radio 3 Capabilities       Service (2×2 2 stream). Band 2.4 GHz service big/fi/ax Modulation BSK, QPSK, QL2501024 CAM         Maximum Data Rate       Service (2×2 2 stream). Band 2.4 GHz service big/fi/ax Modulation BSK, QPSK, QL2501024 CAM         Bluetooth Low Energy Radio       Bluetooth scanning and Eaecon advertisement @ 10 dBm max TX power         Interfaces       2×10/100/1000 Base-T RJ45, Ix Type 2.0 USB, Ix RS-232 RJ45 Serial Port         Power over Ethernet (PoE)       1 × 802 af PoE with reduce TX power and no USB function         Simultaneous SSI0s       Up to 16 (24 if third radio is servicing clients)         EAP Type(s)       EAP-TLS_EAP-TLS_MSCHAP-2, PEA-VIEAP-47, EAP-VIEAP-47, EAP-VIEAP-4	Antenna Type and Peak Gain	Dual band 3.97 dBi for 2.4GHz and 5.89 dBi for 5GHz Single band 5Ghz antenna 5dBi for 2.4GHz band
Channel wildt: 20/40/00/Hz           Medial 20 Capabilities         5.0 GHz al/big/n/ac/ak (2×2.2 stream), Channel wildth 20/40/80/Hz, Meduation BPSK, QPSK, 64/256/1024 QAM           Radio 3 Capabilities         Service (2×2.2 stream), Bond 2.4 OH: service big/n/ac/ak           Radio 3 Capabilities         Service (2×2.2 stream), Bond 2.4 OH: service big/n/ac/ak           Maximum Data Rate         Radio 1 up to 1201 Mbps           Bluetooth Low Energy Radio         Bluetooth scanning and Beacon advertisement @10 dBm max TX power           Interfaces         2 × 10/100/1000 Beace-TR.145, tx Type 2.0 USB, tx RS-232 R.145 Serial POT           Power over Ethernet (PoE)         1 × 802 al PoE default           Simutaneous SSIDs         Up to 12 (11 tritir draio is servicing clients)           ELAP Type(5)         EAP-TLS, EAP-TLS/MSCHAPV2, PEAP-VI[ZAP-MICCAP-MSCHAPV2, PEAP-VI[ZAP-GTC, EAP-SIM, EAP- AKA, EAP-FAST           User/Device Authentication         WPA*, WPA2*, and WPA3* with DS 2.1 Ar OF generate kay, WEP, Web Captive Portal, MAC           Maximum Tx Power (Conducted)         WPA*, WPA2*, and WPA3* with 201 to 0211, 802.118, 02.011, 802.118	Frequency Bands (GHz)	
Indexiduation EPSK, QPSK, 64/256/1024QAM       Radio 3 Capabilities       Service (2× 2 stream), Band 2.4 GHz service b/g/n/ax Channel with 20/40MHz         Radio 3 Capabilities       Channel with 20/40MHz       Modulation BPSK, QPSK, 64/256/1024QAM, Scan dual band scan         Maximum Data Rate       Radio 1 up to 1201 Mbps       Radio 2 up to 1201 Mbps         Bluetooth Low Energy Radio       Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power         Interfaces       2 x 10/100/1000 Base-T R.45, 1x Type 2.0 USB, 1x R5-232 R.145 Serial Port         Power over Ethernet (PoE)       1 x 802.31 PC default         Simultaneous SSIDs       Up to 16 (24 if third radio is servicing clients)         EAP Type(s)       CAP-TLS, FAP-TTLS/MSCHAPV2, PEAVV[EAP-MSCHAPV2, PEAVV[EAP-STC, EAP-SIM, EAP- KAKA, EAP-FAST         Maximum Tx Power (Conducted)       WPA", WPA2", and WPA3" with 802.1s or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowlist         Maximum Tx Power (Conducted)       SGM2 2 2 dBm /158 mW (2 chains combined)*         SGM2 2 2 dBm /158 mW (2 chains combined)*       SGM2 2 2 dBm /158 mW (2 chains combined)*         SGM2 2 2 dBm /158 mW (2 chains combined)*       SGM2 2 2 dBm /158 mW (2 chains combined)*         SGM2 2 2 dBm /158 mW (2 chains combined)*       SGM2 2 2 dBm /158 mW (2 chains combined)*         SGM2 2 2 dBm /158 mW (2 chains combined)*       SGM2 2 2 dBm /158 mW (2 chains combined)*         SGM2 2 2 dBm /158 mW (2 chains combin	Radio 1 Capabilities	Channel width 20/40/80MHz
Modulation BPSK, QPSK, QPSK, GA/256/1024QAM, Scan dual band scan         Maximum Data Rate       Radio 1 up to 1201 Mbps Radio 2 up to 1201 Mbps Radio 2 up to 1201 Mbps         Bluetooth Low Energy Radio       Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power         Interfaces       2× 107/00/1000 Base-F RL45, 1x Type 2.0 USB, 1x RS-232 RL45 Serial Port         Power over Ethernet (PoE)       1 × 802.af PoE with reduce TX power and no USB function         Simultaneous SSIDs       Up to 16 (241 fthird radio is servicing clients)         EAP Type(s)       EAP-TLS, EAP-TLS/MSCHAPV2, PEAPV/(EAP-MSCHAPV2, PEAPV1/EAP-GTC, EAP-SIM, EAP-AKST         Maximum Tx Power (Conducted)       WPA", WPA2", and WPA3" with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blockist and allowist         Maximum Tx Power (Conducted)       2.4GHz 23 dBm / 200 mW (2 chains combined)* SGHz 22 dBm / 15B mW (2 chains combined)* SGHZ 23 dBm / 20D mW (2 chains combined)* SGHZ 23 dBm / 20D mW (2 chains combined)* S	Radio 2 Capabilities	
Bideo child	Radio 3 Capabilities	Channel width 20/40MHz
Interfaces 2×10/100/1000 Base-T RJ45, 1x Type 2.0 USB, 1x RS-232 RJ45 Serial Port 1 × 802.3at PoE default 1 × 802.3at PoE defa	Maximum Data Rate	Radio 2 up to 1201 Mbps
Power over Ethernet (PoE)       1 × 802.3at PoE default         Simultaneous SSIDs       Up to 16 (24 if third radio is servicing clients)         EAP Type(s)       EAP-TLS, EAP-TLS, EAP-TLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST         User/Device Authentication       WPA", WPA2", and WPA3" with 802.1x or Preshared key, WEP, Web Captive Portal, MAC blocklist and allowist         Maximum Tx Power (Conducted)       2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 200 mW (2 chains combined)*         SGHZ 22 dBm / 200 mW (2 chains combined)*       SGHZ 22 dBm / 200 mW (2 chains combined)*         SGHZ	Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
1 × 802.af PoE with reduce TX power and no USB function         Simultaneous SSIDs       Up to 16 (24 if third radio is servicing clients)         EAP Type(s)       EAP-TLS, EAP-TLS/MSCHAPV2, PEAPV0/EAP-MSCHAPV2, PEAPV1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST         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         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 200	Interfaces	2× 10/100/1000 Base-T RJ45, 1x Type 2.0 USB, 1x RS-232 RJ45 Serial Port
EAP Type(s)       EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST         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         2.4GHz 23 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 2       SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3       2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3       2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 20 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 20 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 22 dBm / 158 mW (2 chains combined)*       SGHZ 22 dBm / 158 mW (2 chains combined)*         SGHZ 20 dBm / 200 mW (2 chains combined)*       SGHZ 20 dBm / 200 mW (2 chains combin	Power over Ethernet (PoE)	
AKA, EAP-FAST         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         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3         2.4GHZ 33 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 23 dBm / 200 mW (2 chains combined)*         Radio 3         2.4GHZ 33 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHZ 30 dBm / 200 mW (2 chains co	Simultaneous SSIDs	Up to 16 (24 if third radio is servicing clients)
Maximum Tx Power (Conducted)       Radio 1         2.4GHz 23 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3       2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3       2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*       Radio 3         SSID Types Supported       Yes         Per Radio Client Capacity       Up to 512 clients per radio (all radios)         Cellular Co-existence**       Yes         Reset Button       Yes         There Protection Capable       Yes	EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP- AKA, EAP-FAST
2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         Radio 3         2.4GHz 23 dBm / 200 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 158 mW (2 chains combined)*         SGHz 22 dBm / 200 mW (2 chains combined)*         SGHz 20 dBm / 200 mW (2 chains combined)*         SGHz 20 dBm / 200 mW (2 chains combined)* <td>User/Device Authentication</td> <td></td>	User/Device Authentication	
IFEE Standards       802.11a, 802.11b, 802.1b, 802.1b, 802.1b, 802.1b, 802.1b, 802.1b, 802.1b, 802	Maximum Tx Power (Conducted)	2.4GHz 23 dBm / 200 mW (2 chains combined)* 5GHz 22 dBm / 158 mW (2 chains combined)* Radio 2 5GHz 22 dBm / 158 mW (2 chains combined)* Radio 3 2.4GHz 23 dBm / 200 mW (2 chains combined)*
B02.11w, 802.11ac, 802.11ac, 802.11x, 802.3ad, 802.3ad, 802.3at, 802.3at, 802.3at, 802.3az, Wi-Fi 6         SSID Types Supported       Local-Bridge, Tunnel, and Mesh         Per Radio Client Capacity       Up to 512 clients per radio (all radios)         Cellular Co-existence**       Yes         Reset Button       Yes         Threat Protection Capable       Yes	Kensington Lock	Yes
Per Radio Client Capacity     Up to 512 clients per radio (all radios)       Cellular Co-existence**     Yes       Reset Button     Yes       Threat Protection Capable     Yes	IEEE Standards	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11r, 802.11v, 802.11v, 802.11w, 802.11ax, 802.10, 802.12, 802.3ad, 802.3ad, 802.3at, 802.3az, Wi-Fi 6
Cellular Co-existence**     Yes       Reset Button     Yes       Threat Protection Capable     Yes	SSID Types Supported	Local-Bridge, Tunnel, and Mesh
Reset Button     Yes       Threat Protection Capable     Yes	Per Radio Client Capacity	Up to 512 clients per radio (all radios)
Threat Protection Capable Yes	Cellular Co-existence**	Yes
•	Reset Button	Yes
LED Off Mode Yes	Threat Protection Capable	Yes
	LED Off Mode	Yes

# FortiAP U231F

#### Specifications

	FortiAP U231F
Advanced 802.11 Features	
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU Packet Aggregation	Yes
DFDMA	Yes
2.4 GHz OFDMA	Yes
Spatial Reuse (BSS Coloring)	Yes
HE-MU-MIMO	Yes
JL MU-MIMO 802.11ax mode	Yes
JL MU-MIMO 802.11ac mode	No
DL-MU-MIMO	Yes
Enhanced Target Wake Time (TWT)	Yes
ZeroWait DFS /Agile DFS	No
Nireless Monitoring Capabilities	
Rogue Scan radio modes	Background, Dedicated
NIPS / WIDS radio modes	Background, Dedicated (recommended)
Packet Sniffer Mode	Yes
Spectrum Analyzer	Yes
Dimensions	
ength x Width x Height	6.5 × 6.5 × 2.05 inches (165 × 165 × 52 mm)
Neight	1.5 lbs (0.68 kg)
Package (shipping) Weight	2.6 lbs (1.185 kg)
Mounting Options	Ceiling, T-Rail, and Wall
ncluded Accessories	Standard Mount kit for Ceiling, T-Rail and Wall
Environment	
Power Supply	GPI-130 or SP-FAP250-PA-10
Power Consumption (Maximum)	18.5W
Humidity	5% - 90% non condensing
Operating / Storage Temperature	32°-122°F (0°-50°C) / -22°-158°F (-30°-70°C)
Directives	Low Voltage Directive • RoHS
JL2043 Plenum Material	Yes
Mean Time Between Failures	> 10 Years
P Rating	N/A
Surge Protection Built In	
Hit-less PoE Failover	N/A
Certifications	
Wi-Fi Alliance Certified	Yes
DFS	FCC, IC, CE, Japan, Taiwan, Korea, Brazil
Warranty	
Limited Lifetime Warranty	Yes
* Fraguency selection and nower may be restricted to abide by ragional regulatory compliance laws	

\*\* Frequency selection and power may be restricted to abide by regional regulatory compliance laws. \*\* Additional filtration added to reduce interference in 2.4 GHz band from nearby cellular equipment.

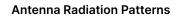
# FortiAP U231F

#### **RF RX/TX Performance Table**

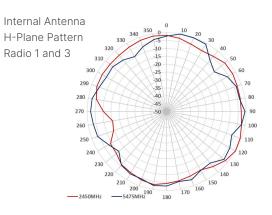
			FortiAP U231F			
	Rac	dio 1	Rad	dio 2	Radio 3	
	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)
2.4 GHz, 802.11b						
1 Mbps	20	-98	_	_	20	-96
11 Mbps	20	-89	—	—	20	-87
2.4 GHz, 802.11g						
6 Mbps	20	-94	—	—	20	-92
54 Mbps	19	-75	_	_	19	-73
2.4 GHz, 802.11n HT20						
MCS0	20	-93	—	—	20	-91
MCS7	18	-75	—	—	18	-72
2.4 GHz, 802.11n HT40						
MCS0	19	-91	_	_	19	-90
MCS7	18	-69	_		18	-71
2.4 GHz, 802.11ax HE20						
MCS0	20	93	_	_	20	-88
MCS11	19	-71	_	_	19	-69
2.4 GHz, 802.11ax HE40						
MCS0	19	-90	_	_	19	-86
MCS11	18	-65	_	_	18	-66
5.0 GHz, 802.11a						
6 Mbps	21	-92	20	-92	21	-92
54 Mbps	20	-75	19	-75	20	-75
5.0 GHz, 802.11n HT20						
MCSO	20	-91	20	-92	20	-91
MCS7	18	-74	18	-74	18	-74
5.0 GHz, 802.11n HT40						
MCSO	20	-90	20	-89	20	-90
MCS7	18	-72	18	-71	18	-72
5.0 GHz, 802.11ac VHT20						
MCSO	20	-92	20	-92	20	-92
MCS9	19	-70	19	-70	19	-70
5.0 GHz, 802.11ac VHT40						
MCS0	20	-89	20	-90	20	-89
MCS9	18	-66	18	-65	18	-66
5.0 GHz, 802.11ac VHT80						
MCS0	19	-87	19	-86	19	-87
MCS9	18	-62	18	-61	18	-62
5.0 GHz, 802.11ax HE20						
MCS0	20	-93	20	-93	20	-93
MCS11	18	-66	18	-62	18	-66
5.0GHz, 802.11ac HE40						
MCS0	20	-87	20	-90	20	-87
MCS11	18	-61	18	-60	18	-61
5.0 GHz, 802.11ac HE80	.5	01	10	30		01
MCS0	19	-94	19	-89	19	-94
MCS0 MCS11	19	-58	19	-58	19	-58
	17	50	17	00	17	-00

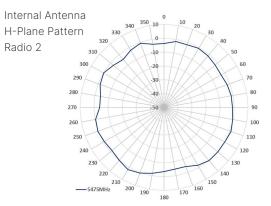


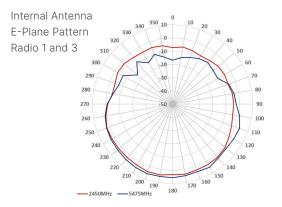
# FortiAP U231F

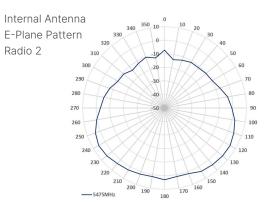












#### **Data Sheet**

### FortiAP U234F

This enterprise class Wi-Fi 6 ruggedized indoor/outdoor AP provides three radios with internal antennas as well as features such as OFDMA and dual 1 Gbps Ethernet ports. The AP can be configured for dual 5 GHz band access while still providing coverage for devices on the 2.4 GHz band, or can be configured to offer dedicated scanning. The integrated BLE radio can be used for beacons and locationing applications.



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

#### 2×2 MIMO | Up to 1,201 Mbps + 1,201 Mbps + 574 Mbps

#### Specifications

(7)

	FortiAP U234F
Hardware	
Hardware Type	Outdoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	2 Wi-Fi 5.0GHz band + 4 dual band Wi-Fi + 1 Single band 2.4GHz BLE/ZigBee
Antenna Type and Peak Gain	Directional patch 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	2.4 GHz a/b/g/n (2×2 2stream) (64 QAM) or 5.0 GHz (high band) a/b/g/n/ac/ax (2×2 2 stream) 20/40/80/160 MHz (64/256/1024 QAM)
Radio 2 Capabilities	5.0 GHz a/n/ac/ax (2×2 2 stream) 20/40/80/160 MHz (64/256/1024 QAM
Radio 3 Capabilities	2.4/5.0 GHz dual band b/g/n/ac (2×2 2 stream) 20/40 MHz (64 QAM)
Maximum Data Rate	Radio 1 up to 2,402 Mbps Radio 2 up to 2,402 Mbps Radio 3 up to 300 Mbps
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 10 dBm max TX power
nterfaces	1× 100/1000/2500 Base-T RJ45(802.3bt/at PoE) 1 × 10/100/1000 Base-T RJ45 (802.3af PoE PSE),  1x RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	802.3bt PoE ships with PoE injector (reset functionality)
Simultaneous SSIDs	Up to 16 (24 if third radio is servicing clients)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST
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 2.4GHz 25 dBm / 316 mW (2 chains combined)* 5GHz 25 dBm / 316 mW (2 chains combined)*
	Radio 2 5GHz 25 dBm / 316 mW (2 chains combined)*
	Radio 3 2.4GHz 27 dBm / 501 mW (2 chains combined)* 5GHz 25 dBm / 316 mW (2 chains combined)*
Kensington Lock	No
IEEE Standards	802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11i, 802.11k, 802.11n, 802.11r, 802.11v, 802.11w, 802.11ac, 802.1Q, 802.1X, 802.3ad, 802.3af, 802.3az, 802.11ax, 802.3bz
SSID Types Supported	Local-Bridge, Mesh, and Tunnel
Per Radio Client Capacity	Up to 512 clients per Radio1 and Radio2
Cellular Co-existence**	Yes
LED Off Mode	No

### FortiAP U234F

#### Specifications

	FortiAP U234F	
Advanced 802.11 Features	Yes	
Transmit Beam Forming (TxBF)	Yes	
Low-Density Parity Check (LDPC) Encoding	Yes	
Maximum Likelihood Demodulation (MLD)	Yes	
Maximum Ratio Combining (MRC)	Yes	
A-MPDU and A-MSDU Packet Aggregation	Yes	
OFDMA	Yes	
2.4 GHz OFDMA	Yes	
Spatial Reuse (BSS Coloring)	Yes	
HE-MU-MIMO	Yes	
UL MU-MIMO 802.11ax mode	Yes	
UL MU-MIMO 802.11ac mode	No	
DL-MU-MIMO	Yes	
Enhanced Target Wake Time (TWT)	Yes	
ZeroWait DFS /Agile DFS	No	
Wireless Monitoring Capabilities		
Rogue Scan radio modes	Background and Dedicated	
WIPS / WIDS radio modes	Background and Dedicated (recommended)	
Packet Sniffer Mode	Yes	
Spectrum Analyzer	Yes	
Dimensions		
Length x Width x Height	12.45 × 8.59 × 1.66 inches (316.18 × 218.16 × 42.21 mm)	
Weight	2.66 lbs (1.207 kg)	
Package (shipping) Weight	5.86 lbs (3.6 kg)	
Mounting Options	Wall/ Pole	
Included Accessories	1-2. Wall/ Pole bracket 3. POE adapter - PIN060-54PR 4. Power cable 5. Grounding cable 6. Mounting Kit (Pole straps; mounting bolts, screws; grounding screws)	
Environment		
Power Supply	802.3bt/at (ships with passive PoE injector with build in reset switch)	
Power Consumption (Maximum)	21 Watts	
Humidity	10 - 90% non condensing	
Operating / Storage Temperature	-40°–140°F (-40°-60°C) / -50°–176°F (-58°–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		
Wi-Fi Alliance Certified	Yes	
DFS	FCC, IC, CE, Taiwan	
Warranty		
Limited Lifetime Warranty	Yes	
** Frequency selection and power may be restricted to abide by regional regulatory compliance laws.		

\*\* Frequency selection and power may be restricted to abide by regional regulatory compliance laws. \*\* Additional filtration added to reduce interference in 2.4 GHz band from nearby cellular equipment.

# FortiAP U234F

#### **RF RX/TF Performance Table**

		FortiAP U234F		
	2.4	2.4 GHz		GHz
	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)
802.11 b				
1 Mbps	23	-98	—	_
11 Mbps	23	-90	_	_
802.11 a/g				
6 Mbps	23	-93	22	-91
54 Mbps	19	-75	17	-74
802.11 n HT20				
MCS0	23	-91	22	-91
MCS7	19	-71	16	-72
802.11 n HT40				
MCS0	23	-89	22	-88
MCS7	19	-69	16	-69
302.11 ac/ax VHT20				
MCS0	23	-91	22	-91
MCS8	18	-68	18	-69
302.11 ac/ax VHT40				
ACS0	23	-89	22	-88
MCS9	17	-66	16	-64
MCA 10 (QAM 1024)			15	-62
MCA 11 (QAM 1024)			15	-62
802.11 ac/ax VHT80				
MCS0			22	-85
MCS9			15	-61
MCA 10 (QAM 1024)			14	-60
MCA 11 (QAM 1024)			14	-60
802.11 ac/ax VHT160				
MCSO			1722	-83
MCS9			13	-59
MCA 10 (QAM 1024)			13	-58
/ICA 11 (QAM 1024)			13	-58

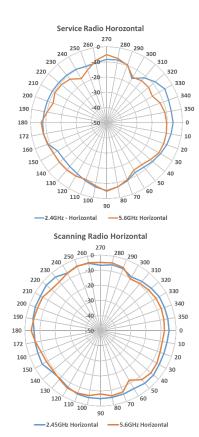
### FortiAP U234F

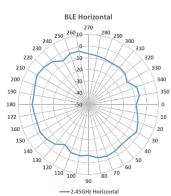
**Pole/Wall Mounting Position** 

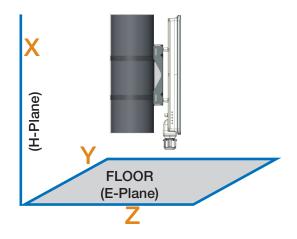


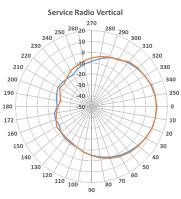
### FortiAP U234F

#### Antenna Radiation Patterns



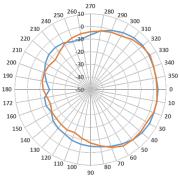




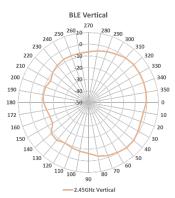


-2.4GHz Vertical -5.6GHz Vertical









This enterprise class 802.11ac Wave 2 outdoor AP provides dual concurrent 4×4 radios in both 2.4 GHz and 5 GHz frequencies. This top-of-the-line access point provides MU-MIMO, two Gigabit Ethernet ports and supports 1xPD+1xPSE function and withstands harsh outdoor environments with certified IP67 industrial grade protection. Note. This AP is not UTP capable.



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

#### ( 4×4 MU-MIMO | Up to 600 Mbps + 3,466 Mbps

#### Specifications

	FortiAP U422EV		
Hardware			
Hardware Type	Outdoor AP		
Number of Radios	2 + 1 BLE		
Number of Antennas	8 External (Type N) + 1 BLE Internal		
Antenna Type and Peak Gain	Dipole 5 dBi for 2.4 GHz, 7 dBi for 5 GHz		
Frequency Bands (GHz)	2.400-2.4835, 5.150-5.250, 5.250-5.350, 5.470-5.725, 5.725-5.850		
Radio 1 Capabilities	2.4 GHz b/g/n (4×4 4 stream) 20/40 MHz (64 QAM)		
Radio 2 Capabilities	5 GHz a/n/ac (4×4 4 stream) 20/40/80/160 MHz (256 QAM)		
Maximum Data Rate	Radio 1 up to 600 Mbps Radio 2 up to 3466 Mbps		
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 4 dBm max TX power		
Interfaces	2× 10/100/1000 Base-T RJ45, 1x RS-232 RJ45 Serial Port		
Power over Ethernet (PoE)	LAN1 supports 802.3at or proprietary PoE injector. LAN2 supports 802.3af PSE Out.		
Simultaneous SSIDs	Up to 16 (14 if background scanning enabled)		
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAI AKA, EAP-FAST		
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)	2.4 GHz 24 dBm / 251 mW (4 chains combined)* 5 GHz 24 dBm / 251 mW (4 chains combined)*		
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, 802.11v, 802.11w, 802.11w, 802.11ac, 802.1Q, 802.1X, 802.3af, 802.3at, 802.3az, 802.3ad		
SSID Types Supported	Local-Bridge, Tunnel, and Mesh		
Per Radio Client Capacity	Up to 256		
Cellular Co-existence**	Yes		
Reset Button	Yes		
LED Off Mode	Yes		
Advanced 802.11 Features			
802.11ac MU-MIMO Wave 2	Yes		
Transmit Beam Forming (TxBF)	Yes		
Low-Density Parity Check (LDPC) Encoding	Yes		
Maximum Likelihood Demodulation (MLD)	Yes		
Maximum Ratio Combining (MRC)	Yes		
A-MPDU and A-MSDU Packet Aggregation	Yes		
MIMO Power Save	Yes		
Short Guard Interval	Yes		

#### Specifications

	FortiAP U422EV	
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	8.3 × 8.3 × 2.0 inches (210 × 210 × 51 mm)	
Weight	4.08 lbs (1.85 kg)	
Package (shipping) Weight	11.42 lbs (5.18 kg)	
Mounting Options	Wall Mount or Pole Mount	
Included Accessories	Mounting Kits, Grounding Cable, $4 \times 2.4$ GHz and $4 \times 5$ GHz dipole Antennas	
Environment		
Power Supply	Proprietary PoE injector or GPI-130	
Power Consumption (Maximum)	22 W	
Humidity	5%-90% non-condensing	
Operating / Storage Temperature	-40°-140°F (-40°-60°C) / -40°-158°F (-40°-70°C)	
Directives	Low Voltage Directive • RoHS	
UL2043 Plenum Material	No	
Mean Time Between Failures	>9.9 Years	
IP Rating	IP67	
Surge Protection Built In	Yes	
Hit-less PoE Failover	No	
Certifications		
Wi-Fi Alliance Certified	Yes	
DFS	FCC, IC, CE, Japan	
Warranty		
Limited Lifetime Warranty	Yes	

\*\* Frequency selection and power may be restricted to abide by regional regulatory compliance laws. \*\* Additional filtration added to reduce interference in 2.4 GHz band from nearby cellular equipment.

#### **RF RX/TF Performance Table**

		FortiAP U422EV		
	Radio 1 2.4 GHz			io 2 Hz
	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)	Max Tx Power per transmit chain (dBm)	Rx Sensitivity per receiver chain (dBm)
802.11 a/g				
6 Mbps	18	-92	18	-91
9 Mbps	18	-90	18	-89
12 Mbps	18	-88	18	-87
18 Mbps	18	-84	18	-85
24 Mbps	18	-82	18	-82
36 Mbps	18	-78	18	-80
48 Mbps	18	-77	18	-77
54 Mbps	18	-75	15	-73
802.11 HT20	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)
MCS 0 (BPSK)	18	-92	18	-91
MCS 1 (QPSK)	18	-89	18	-88
MCS 2 (QPSK)	18	-86	18	-86
MCS 3 (16-QAM)	18	-83	18	-83
MCS 4 (16-QAM)	18	-80	18	-79
MCS 5 (64-QAM)	18	-75	18	-75
MCS 6 (64-QAM)	17	-74	16	-74
MCS 7 (64-QAM)	17	-72	15	-71
802.11 HT40	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)
MCS 0 (BPSK)	18	-90	18	-87
MCS 1 (QPSK)	18	-86	18	-84
MCS 2 (QPSK)	18	-84	18	-82
MCS 3 (16-QAM)	18	-80	18	-79
MCS 4 (16-QAM)	18	-77	17	-75
MCS 5 (64-QAM)	18	-73	16	-71
MCS 6 (64-QAM)	17	-71	15	-70
MCS 7 (64-QAM)	16	-70	14	-69
MCS 8 (256-QAM)	-	-	14	-64
MCS 9 (256-QAM)	_	-	13	-62
802.11 HT80	Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)
MCS 0 (BPSK)	_	-	18	-84
MCS 1 (QPSK)	_	_	18	-81
MCS 2 (QPSK)	-	-	18	-79
MCS 3 (16-QAM)	-	-	18	-76
MCS 4 (16-QAM)	_	-	17	-72
MCS 5 (64-QAM)	-	-	16	-68
MCS 6 (64-QAM)	-	-	15	-67
MCS 7 (64-QAM)	-	-	14	-66
MCS 8 (256-QAM)	-	-	13	-61
MCS 9 (256-QAM)	-	-	12	-59

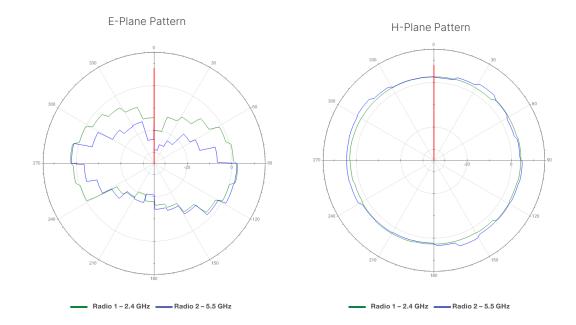
Maximum capability of the hardware provided (excluding antenna gain).

**Pole/Wall Mounting Position** 



### FortiAP U422EV

#### Antenna Radiation Patterns



# **Ordering Information**

Product	SKU	Description
FortiAP U431F	FAP-U431F	Indoor Wireless UTP AP - Tri radio (2× 802.11 a/b/g/n/ac/ax, 4×4 MIMO and 1× 802.11 a/b/g/n/ac Wave 2, 2×2 MU-MIMO), internal antennas, 1× 10/100/1000/2500 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-FAP43F-PA-X-5
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.
	FC-10-P431F-247-02-DD	FortiCare Premium Support
	FC-10-P431F-284-02-DD	FortiCare Elite Support
FortiAP U432F	FAP-U432F	Outdoor Universal AP - Tri radio (1× 2.4GHz/5GHz 4×4 Wi-Fi 6, 1× 5GHz 4×4 Wi-Fi 6, 1× 2.4GHz/5GHz 1×1 Wi-Fi 5), external antennas included, 1× 100/1000/2500 RJ45, 1× 10/100/1000 RJ45, IoT Enabled (BT/BLE), 1x RS-232 RJ45 Serial Port. Pole/wall mount kit and PoE injector included.
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.
	FC-10-PU432-247-02-DD	FortiCare Premium Support
	FC-10-PU432-284-02-DD	FortiCare Elite Support
	FAP-U433F	Indoor Wireless UTP AP - Tri radio (2× 802.11 a/b/g/n/ac/ax, 4×4 MIMO and 1× 802.11 a/b/g/n/ac Wave 2, 2×2 MU-MIMO), external antennas included, 1× 10/100/1000/2500 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-FAP43F-PA-X-5
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.
	FC-10-P433F-247-02-DD	FortiCare Premium Support
	FC-10-P433F-284-02-DD	FortiCare Elite Support
FortiAP U231F	FAP-U231F	Indoor Wireless UTP 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, 2× 10/100/1000 RJ45 port, BT/BLE, 1x Type A USB, 1x RS-232 RJ45 Serial Port. Ceiling/wall mount kit included. For power order: SP-FAP250-PA-10.
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.
	FC-10-P231-247-02-DD	FortiCare Premium Support
	FC-10-P231F-284-02-DD	FortiCare Elite Support
FortiAP U234F	FAP-U234F	Outdoor Universal AP - Tri radio (1× 2.4GHz/5GHz 2×2 Wi-Fi 6, 1× 5GHz 2×2 Wi-Fi 6, 1× 2.4GHz/5GHz 2×2 Wi-Fi 5), internal antennas, 2× 10/100/1000 RJ45, IoT Enabled (BT/BLE), 1x RS-232 RJ45 Serial Port. Pole/wall mount kit and PoE injector included.
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.
	FC-10-PU234-247-02-DD	FortiCare Premium Support
	FC-10-PU234-284-02-DD	FortiCare Elite Support
FortiAP U422EV	FAP-U422EV	Outdoor Wireless AP - Dual radio (802.11 a/b/g/n and 802.11 a/b/g/n/ac Wave 2, 4×4 MU-MIMO), external antennas included, 2x 10/100/1000 RJ45 port, IP67 rated. Pole/wall mount kit, ground cable, power supply included.
	FC-10-P0422-247-02-DD	FortiCare Premium Support
	FC-10-P0422-284-02-DD	FortiCare Elite Support
Accessories		
Gigabit PoE Injector	GPI-115	1-Port Gigabit PoE Injector, 802.3af up to 12.95 W.
	GPI-130	1-Port Gigabit PoE Power Injector, 802.3at up to 30W.
Power Adapter	SP-FAP43F-PA-X-5	AC power adapter for FAP-U431F and FAP-U433F.
	SP-FAP400-PA	AC power adapter for FAP-U423EV.
	SP-FAP200-PA	AC power adapter for FAP-U321EV.
	SP-FAPU24-PA	AC power adapter for FAP-U24JEV.
	SP-FAP250-PA-10	AC power adapter with US and EU plugs for FAP-U231F and FAP-231F.
FortiGuard Services		
	FC-10-90APU-443-02-DD	FortiAP-U Series FortiGuard Universal Threat Protection Subscription Service License. Applicable to FortiGate or FortiLAN Cloud managed F-Series or later FortiAP-U family Access Points.

Notes.

Additional external antenna options are available for some models. Please see the antenna datasheet for details.

A country suffix code (-A, -B, -C, -D, -E, -F, -I, -J, -K, -N, -P, -S, -T, -U, -V, -W, or -Y) applies to all AP models based upon country of deployment.

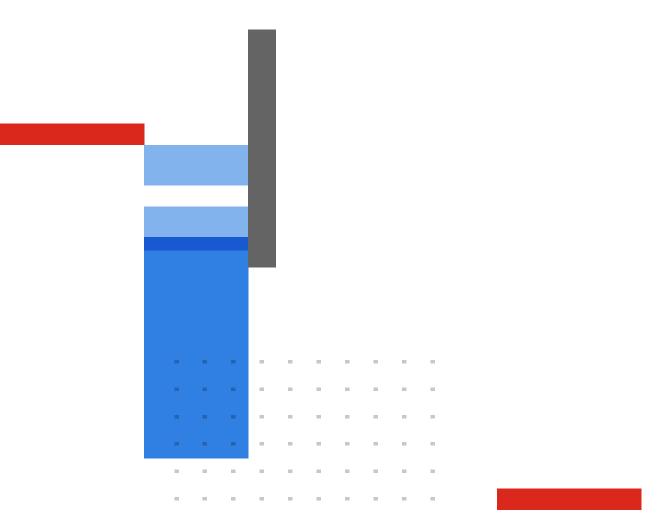
Work with your local supplier for the correct model in your regulatory domain.

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

#### **Fortinet CSR Policy**

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.



# F: RTINET.

www.fortinet.com

Copyright © 2022 Fortinet, Inc. All rights reserved. Fortinet\*, FortiGate\*, Fo