HIGHLIGHTS

FortiAP 222C

The FortiAP 222C is a high-performance dual-band 2x2 MIMO 802.11ac AP. Designed in a ruggedized IP67-rated enclosure and capable of withstanding extended temperature ranges, this AP is suitable for deployment in the harsh conditions. The AP uses high-quality external antennas for long-distance and mission-critical bridging or mesh deployments.



802.11ac Wave 1 | Dual Radio 2.4 and 5 GHz | 4 External Antennas



2x2 MIMO | Up to 450 + 1,300 Mbps



SPECIFICATIONS

	FORTIAP 222C		
Hardware			
Hardware Type	Outdoor IP67 rated, status LEDs, gore vent for pressure equalization		
Number of Radios	2		
Number of Antennas	4 external N-Type		
Peak Antenna Gain	3.5 dBi for 2.4 GHz,		
	6 dBi for 5 GHz		
Frequency Bands (GHz) *	2.400-2.4835, 5.150-5.250, 5.250-5.350, 5.470-5.725, 5.725-5.850		
Frequency of Radio 1	5 GHz a/n/ac		
Frequency of Radio 2	2.4 GHz b/g/n		
Maximum Data Rate	Radio 1: Up to 867 Mbps,		
	Radio 2: Up to 300 Mbps		
Tx/Rx Streams	2x2 MIMO with 2 spatial streams		
Ethernet Ports	1x GE RJ45		
USB Port	-		
Serial Console Port	_		
Power over Ethernet (PoE)	IEEE 802.3at or included PoE injector		
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)		
Simultaneous SSIDs	16 (14 if background scanning enabled)		
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST		
User/Device Authentication	WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist		
Maximum Tx Power	26 dBm (398 mW) *		
Physical Security	Concrete and pole mount		
Mean Time Between Failures	> 7 years		
IEEE Specifications	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x, 802.3af, 802.11ac		
802.11ac 80MHz Channel	Yes		
802.11n Features	20 MHz and 40 MHz High-Throughput (HT) Support		
	Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation		
	Conserve power via Dynamic MIMO power save		

	FORTIAP 222C		
Advanced 802.11n to enhance rate-over-range including:	Low-density parity check (LDPC) encoding		
	Maximum likelihood demodulation (MLD)		
	Maximum Ratio Combining (MRC) for improved receiver		
Mounting Options	Wall or pole		
Included Accessories	PoE injector with AC power adapter, pole mount kit, wall mount kit, grounding cable, surge protector, 4x dipole antennas		
FortiPresence Capable	Yes		
Wireless Monitoring Capabilities			
Frequencies scanned	2.4 and 5 GHz		
Background scan with client access on 2.4 and 5 GHz	Yes		
Full-time scan as dedicated monitor	Yes		
Dimensions			
Length x Width x Height	9.8 x 8.7 x 2.1 inches (249 x 220 x 53 mm)		
Weight	3.68 lbs (1.67 kg)		
Package (shipping) Weight	9.1 lbs (4.31 kg)		
Environment			
Power Supply	Proprietary PoE Injector Adapter Input: 100-240V AC, 50-60 Hz		
Power Consumption (Average)	16 W		
Power Consumption (Maximum)	18.4 W		
Humidity	5–90% non-condensing		
Operating Temperature	-40—140°F (-40—60°C)		
Storage Temperature	-40-158°F (-40-70°C)		
Directives	Low Voltage Directive ● RoHS		
Certifications			
WiFi Alliance Certified	Yes		
* F			

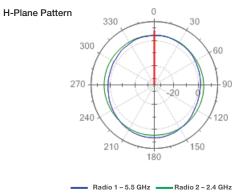
 $^{^{\}star}$ Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

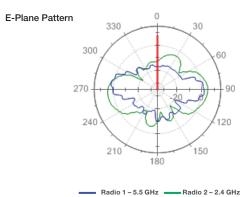
RF RX/TX PERFORMANCE TABLE

	FORTIAP 222C RADIO 1 RADIO 2				
	RADIO 1		2.4 GHz	_	
	5 GHz Tx Power (dBm)	Rx Sensitivity (dBm)	Tx Power (dBm)	Rx Sensitivity (dBm)	
6 Mbps	24	-93	27	-92	
54 Mbps	20	-77	25	-75	
802.11n HT20					
MCS 0/8	24	-93	27	-91	
MCS 1/9	24	-91	27	-89	
MCS 2/10	24	-87	27	-88	
MCS 3/11	23	-84	27	-85	
MCS 4/12	23	-81	26	-81	
MCS 5/13	21	-77	25	-78	
MCS 6/14	20	-76	25	-76	
MCS 7/15	20	-74	24	-73	
802.11n HT40					
MCS 0/8	24	-89	27	-86	
MCS 1/9	24	-86	27	-87	
MCS 2/10	24	-84	27	-86	
MCS 3/11	24	-81	27	-83	
MCS 4/12	24	-78	26	-79	
MCS 5/13	22	-76	24	-77	
MCS 6/14	20	-75	24	-72	
MCS 7/15	20	-73	24	-71	
802.11ac HT80					
MCS 0	24	-87	_	_	
MCS 1	24	-85	_	_	
MCS 2	24	-83	_	_	
MCS 3	24	-79	_	_	
MCS 4	24	-77	_	_	
MCS 5	22	-76	_	_	
MCS 6	21	-75	_	_	
MCS 7	20	-73	_	_	
MCS 8	18	-65	_	_	
MCS 9	17	-61	_	_	

ANTENNA RADIATION PATTERNS







12 www.fortinet.com