

HIGHLIGHTS

FortiAP S322C and S322CR

The FAP-S322C and S322CR are 802.11ac Wave 1 outdoor access points. They offer great performance of throughput up to 1.3 GHz. They support a variety of external antenna options to best fit your coverage needs. The FAP-S322CR has 2 GE ports that support PoE and LAG. You can use the second port to power and connect another device to the network.



 **802.11ac Wave 1 | Dual Radio 2.4 and 5 GHz | 3 External Antennas**

 **Up to 450 + 1,300 Mbps**

SPECIFICATIONS

	FORTIAP S322C	FORTIAP S322CR
Hardware		
Hardware Type	Outdoor	Outdoor
Number of Radios	2	2
Number of Antennas	6 N-type external	6 N-type external
Peak Antenna Gain	3.5 dBi for 2.4 GHz, 6 dBi for 5 GHz	3 dBi for 2.4 GHz, 3 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Frequency of Radio 1	2.4 GHz b/g/n	2.4 GHz b/g/n
Frequency of Radio 2	5 GHz a/n/ac	5 GHz a/n/ac
Throughput	Radio 1: Up to 450 Mbps, Radio 2: Up to 1300 Mbps	Radio 1: Up to 450 Mbps, Radio 2: Up to 1300 Mbps
Tx/Rx Streams	3x3 with 3 spatial streams	3x3 MIMO with 3 spatial streams
Ethernet Ports	1x GE RJ45	2x GE RJ45
USB Port	—	—
Serial Console Port	1x RJ45	—
Power over Ethernet (PoE)	Dual redundant PoE power ports with support for IEEE 802.3at (25.5 W)	Dual redundant PoE power ports with support for IEEE 802.3at (25.5 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)	—
Simultaneous SSIDs	16 (14 if background scanning enabled)	—
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST	—
User/Device Authentication	WPA™ and WPA2™ with 802.1x or Pre-shared key, WEP and Web Captive Portal, MAC blacklist & whitelist	—
Maximum Tx Power	20 dBm (100 mW)*	20 dBm (100 mW)*
Physical Security	Kensington Lock	Kensington Lock
Mean Time Between Failures	>20 years	>20 years
IEEE Specifications	802.11a, 802.11ac, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x, 802.3af	—
802.11ac 80MHz Channel	Yes	Yes
802.11n Features	<ul style="list-style-type: none"> • 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 	—
Advanced 802.11n to enhance rate-over-range including:	<ul style="list-style-type: none"> • Low-density parity check (LDPC) encoding • Maximum likelihood demodulation • Maximum Ratio Combining (MRC) for improved receiver performance 	—

	FORTIAP S322C	FORTIAP S322CR
Mounting Options	Wall or Pole Mounting	Wall or Pole Mounting
Included Accessories	Ceiling, T-Rail and wall mount kit	Ceiling, T-Rail and wall mount kit
FortiPresence Capable	Yes	Yes
Wireless Monitoring Capabilities		
Frequencies scanned	2.4 and 5 GHz	2.4 and 5 GHz
Background scan with client access on 2.4 and 5 GHz	Yes	Yes
Full-time scan as dedicated monitor	Yes	Yes
Full-time scan with client access on 5G GHz	Yes	Yes
Dimensions		
Length x Width x Height	11.65 x 8.9 x 5.08 inches (29.6 x 22.6 x 12.9 cm)	9.8 x 8.66 x 2.09 inches (24.9 x 22 x 5.3 cm)
Weight	7.23 lb (3.28 kg)	2.43 lb (1.1 kg)
Package (shipping) Weight	7.36 kg (16.23 lb)	8.09 lb (3.67 kg)
Environment		
Power Supply	PoE 48V DC, 0.8A	PoE 48V DC, 0.8A
Power Consumption (Average / Maximum)	4.56 W / 25.2 W	19.68 W / 20.16 W
Humidity	5–90% non condensing	5–90% non condensing
Operating Temperature	-22–140°F (-30–60°C)	-22–140°F (-30–60°C)
Storage Temperature	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)
Directives	Low Voltage Directive • RoHS	Low Voltage Directive • RoHS
Warranty		
Limited Lifetime Warranty	Yes	Yes

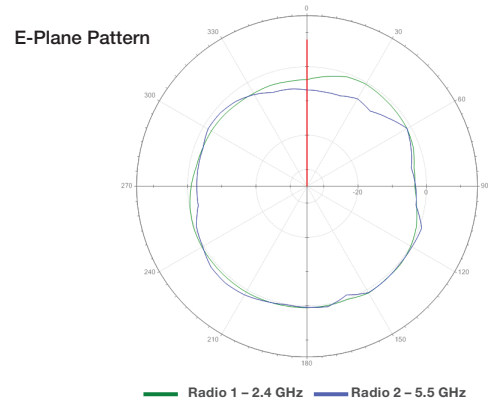
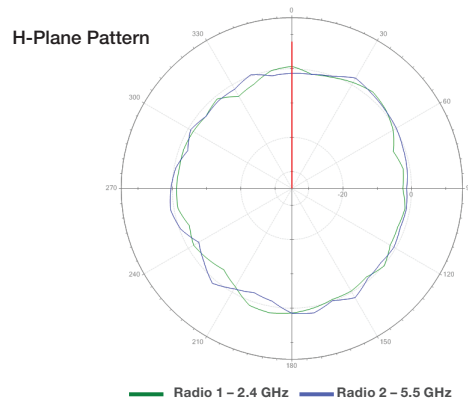
* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

RF RX/TX PERFORMANCE TABLE

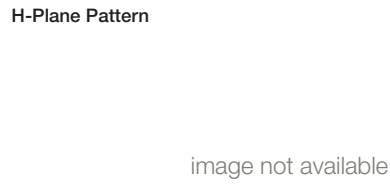
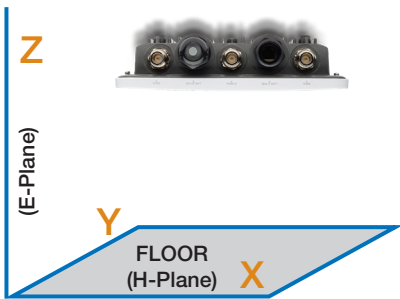
	FORTIAP S322C RADIO 1				FORTIAP S322CR RADIO 1			
	RADIO 2		RADIO 2		RADIO 2		RADIO 2	
	2.4 GHz Tx Power (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power (dBm)	Rx Sensitivity (dBm)	2.4 GHz Tx Power (dBm)	Rx Sensitivity (dBm)	5 GHz Tx Power (dBm)	Rx Sensitivity (dBm)
802.11 a/g								
6 Mbps	17.5	-90	21	-92	25	-90	25	-93
9 Mbps	17.5	-89	21	-91	24	-90	24	-91
12 Mbps	17.5	-87	21	-89	23	-89	23	-89
18 Mbps	17.5	-85	21	-87	22	-87	22	-87
24 Mbps	17.5	-82	21	-83	21	-84	21	-84
36 Mbps	17.5	-79	21	-79	21	-80	21	-80
48 Mbps	17.5	-75	20	-76	21	-76	21	-76
54 Mbps	17.5	-74	18	-75	21	-75	21	-75
802.11n HT20								
MCS 0/8/16	17.5	-90	21	-92	25	-90	25	-93
MCS 1/9/17	17.5	-87	21	-89	24	-87	24	-87
MCS 2/10/18	17.5	-85	21	-86	23	-85	23	-85
MCS 3/11/19	17.5	-83	21	-82	22	-82	22	-82
MCS 4/12/20	17.5	-79	21	-78	21	-78	21	-78
MCS 5/13/21	17.5	-74	21	-74	21	-74	21	-74
MCS 6/14/22	17.5	-73	20	-73	21	-73	21	-73
MCS 7/15/23	17.5	-72	18	-72	21	-72	21	-72
802.11n HT40								
MCS 0/8/16	13.5	-87	20	-89	25	-87	25	-90
MCS 1/9/17	13.5	-84	20	-86	24	-84	24	-84
MCS 2/10/18	13.5	-82	20	-83	23	-82	23	-82
MCS 3/11/19	13.5	-79	20	-80	22	-79	22	-79
MCS 4/12/20	13.5	-76	20	-76	21	-75	21	-75
MCS 5/13/21	13.5	-71	20	-72	21	-71	21	-71
MCS 6/14/22	13.5	-70	20	-71	21	-70	21	-70
MCS 7/15/23	13.5	-69	18	-70	21	-69	21	-69
802.11 ac VHT20								
MCS 0			21	-92			25	-93
MCS 1			21	-89			24	-87
MCS 2			21	-86			23	-85
MCS 3			21	-82			22	-82
MCS 4			21	-78			21	-78
MCS 5			21	-74			21	-74
MCS 6			20	-73			21	-73
MCS 7			18	-72			21	-72
MCS 8			16	-67			20	-68
802.11 ac VHT40								
MCS 0			20	-89			25	-90
MCS 1			20	-86			24	-84
MCS 2			20	-83			23	-82
MCS 3			20	-80			22	-79
MCS 4			20	-76			21	-75
MCS 5			20	-72			21	-71
MCS 6			20	-71			21	-70
MCS 7			18	-70			21	-69
MCS 8			16	-65			20	-65
MCS 9			15	-63			19	-63
802.11 ac VHT80								
MCS 0			20	-86			25	-87
MCS 1			20	-83			24	-81
MCS 2			20	-80			23	-79
MCS 3			20	-77			22	-76
MCS 4			20	-73			21	-72
MCS 5			20	-69			21	-68
MCS 6			20	-68			21	-67
MCS 7			18	-66			21	-66
MCS 8			16	-62			20	-62
MCS 9			15	-60			19	-60

ANTENNA RADIATION PATTERNS

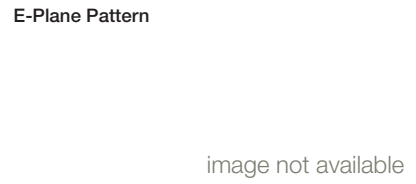
FAP-S322C



FAP-S322CR



Radio 1 - 2.4 GHz Radio 2 - 5.5 GHz



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