SP420 Series

4x4 Dual Band
802.11ac Wave 2 Outdoor Access Point

SP420 802.11ac Wave 2 4x4 dual band outdoor access point is with Multiple-Input Multiple-Output (MIMO) technology, provides a data rate of up to 2.3Gbps, and can accommodate up to 512 wireless devices.

IP67 waterproof and scale-level 14 windproof designed for harsh environments. Equipped with a PoE out capability that enables cost-effective deployment to surveillance applications and featured both Ethernet and Fiber small Form-Factor Pluggable (SFP) backhaul options with added flexibility. The added benefit of the Wi-Fi SON (Self-Organizing Network) and Bluetooth location service improves the efficiency of network deployment.

SP420 is the industry's highest-performing outdoor AP and well suited to high-density environments, such as campuses, parks, and tourist attractions.

MU-MIMO Technology
Supports four spatial streams, to maximize throughput for high-density applications.

PoE Out (SP420)
Powers a device such as an IP camera or a VoIP product for fast deployment.

Location Service
Integrated Bluetooth Low Energy (BLE) 4.1 radio to enable location tracking and wayfinding.

Mesh Coverage
Accelerates the connection speed between devices, providing users with quick installation and easy deployment capabilities

Robust Product Design
Encased with IP67-rated and scale-level 14 windproof robust design that can withstand harsh environments.

Fiber Connector (SP420-F)
Adopts fiber cable for farther deployment and cost-effective applications.

Product models options

	SP420	SP420-F
Standards	IEEE 802.11a/b/g/n/ac	
Radio Chains	2.4 GHz: 4x4:4 5GHz: 4x4:4	
Antenna	2.4 GHz: 5dBi (Embedded) 5GHz: 5dBi (Embedded)	2.4 GHz: 5dBi (Embedded) 5GHz: 5dBi (Embedded)
Antenna Type	2.4/5GHz: Omni antenna	

Supported Data Rates	802.11b: 11 Mbps / 802.11a/g: 54 Mbps 802.11n: 600Mbps / 802.11ac: 1733Mbps	
Bandwidth	20 / 40 / 80 / 80+80 MHz	

Frequency Bands		2.4GHz Radio	5GHz Radio
	US	2.412 – 2.462GHz	5.15GHz – 5.35GHz 5.47GHz – 5.85GHz
	EU	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.47GHz – 5.725GHz
	Japan	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.47GHz – 5.725GHz
	China	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.725GHz – 5.85GHz
	India	2.412 – 2.472GHz	5.15GHz – 5.35GHz 5.725GHz – 5.85GHz 5.85GHz – 5.875GHz

Operating Channels		2.4GHz	5GHz
	US	1 – 11	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140, 149, 153, 157, 161, 165
	EU	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140
	Japan	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140
	China	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165
	India	1 – 13	36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165, 169, 173

Max. Transmit Power	2.4GHz	5GHz
	28dBm	28dBm
	*The maximum power setting will vary by channel and according to individual country regulations.	

Receive Sensitivity	11b: -98dBm / 11a/g: -100dBm / 11n: -100dBm / 11ac: -96dBm

	SP420	SP420-F

Interfaces	2 × 10/100/1000 BASE-T
	  1 WAN for 802.3at PoE,
	  1 LAN for PoE Out (Max 11.5Watt, 45+/78-)
	1 × Ground terminal
		1 × 10/100/1000 BASE-T
		1 × 1GbE SFP
		1 × Ground terminal

Indicator	Power / System / WLAN / WAN	
Supported Wireless LAN Controllers	WS5G2 / WS7G2 /WS10G2 / WS200G2 / WS500G2 / WS1000G2	

	Power Consumption	Power Input	
Power	< 15W	DC 48V, 0.5A PoE	
IP Rating	IP67		

	Dimensions	Weight	Mounting Type
Physical Characteristics	296 (L) × 92 (W) × 283 (H) mm	2 Kg	Pole mount

	Storage	Operating	
Environmental	Temperature: -40 – 80 ℃ Humidity: 10 – 90%	Temperature: -40 – 70 ℃ Humidity: 10 – 90% (non-condensing)	

	Version	Frequency	Antenna
Bluetooth	4.1	2400 – 2480MHz	1.5dBi (Embedded)

Compliance Standards	IEC/EN 60950 EN55032 & EN55024 WEEE & RoHS **Radio approvals:** EN 300 328, EN301 893 (Europe) EMI and susceptibility (Class B) EN 301 489-1 and -17 (Europe) **IEEE standards:** IEEE 802.11a/b/g/n/ac IEEE 802.11d, e, h, i, j, k, r, u, v time stamp, w, and z standards **Multimedia:** Wi-Fi multimedia (WMM) **Security:** Open System 802.1x WPA-PSK/WPA2-PSK WPA-Enterprise/WPA2-Enterprise **Extensible Authentication Protocol (EAP) types:** EAP-Transport Layer Security (TLS) EAP-Tunneled TLS (TTLS) Protected EAP (PEAP) EAP-Subscriber Identity Module (SIM) *Above partial functions should be configured by Z-COM Wireless LAN Controllers (WLC)

Optional Accessories

PN	SP-CBM5	SP-MKM5
Item	Anti-theft steel rope Allen wrench Four screws	Two-dimensional mounting kit: Two-dimensional mounting bracket Pole-supported bracket Intermediate steel plate Two Flat head screws Four Self-tapping screws Four screw anchors Four Machine screws (M4) Four Machine screws (M5)
SP420	V	V
SP420-F	V	V
PN	SP-WP-CM20	SP-WP-CM28SFP
Item	Waterproof cable gland	Waterproof cable gland for fiber port
SP420	V	
SP420-F	V	V

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