SP420

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.
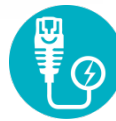
IP67 waterproof and scale-level 14 windproof designed for harsh environments. Equipped with a PoE out capability that enables cost-effective deployment to surveillance applications.

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
Powers a device such as an IP camera or a VoIP product for fast deployment.

Flexible installation
Provides various working mode which can be applied flexibly in different scenarios.

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

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)
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 and Operating Channels	Taiwan	US
	2.412 – 2.462 GHz; 11 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz ; 12 channels 5.745 – 5.825 GHz; 5 channels	2.412 – 2.462 GHz; 11 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz ; 12 channels 5.745 – 5.825 GHz; 5 channels
	EU	China
	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.700 GHz ; 11 channels	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.745 – 5.825 GHz; 5 channels
	Japan	India
	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz; 12 channels	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz ; 12 channels 5.745 – 5.865 GHz; 7 channels
	*Operating Channel depends on configured regulatory domain.	

	2.4GHz	5GHz
Max. Transmit Power	31dBm w/ 4 ant.	31dBm w/ 4 ant.
	*The maximum power setting will vary by channel and according to individual country regulations.	

	2.4GHz	5GHz
Receive Sensitivity	-100dBm (Min.)	
	HT20: -94dBm/HT40: -91dBm	VHT20: -92dBm/ VHT40: -88dBm/ VHT80: -85dBm

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

Indicator	Power / System / WLAN / WAN
Supported Wireless LAN Controllers	WS5G2 / WS7G2 /WS10G2 / WS200G2 / WS500G2 / WS1000G2
IP Rating	IP67

Power	**Power Consumption**	**Power Input**	
	< 15W	DC 48V, 0.5A PoE	
Physical Characteristics	**Dimensions**	**Weight**	**Mounting Type**
	296 (L) × 92 (W) × 283 (H) mm	2 Kg	Pole mount
Environmental	**Storage**	**Operating**	
	Temperature: -40 – 80 ℃ Humidity: 10 – 90%	Temperature: -40 – 70 ℃ Humidity: 10 – 90% (non-condensing)	
Bluetooth	**Version**	**Frequency**	**Antenna**
	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)		

Package Contents

SP420	802.11ac Wave 2 4 x 4 Dual Band Outdoor Access Point. Mounting bracket included. Does not include power adapter.

Optional Accessories

SP-CBM5	Anti-theft steel rope + allen wrench + four screws		SP-MKM5	Two-dimensional mounting kit	
SP-WP-CM20	Waterproof cable gland		SP-48063-XX	48V PoE Injector + power cord	

*Notice: When ordering power adapters, you must specify the destination region by indicating -US, -EU instead of -XX.

Z-COM, Inc.
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