



SP220V2 Series

2x2 Dual Band

802.11ac Wave 2 Outdoor Access Point



SP220V2 802.11ac Wave 2 dual band outdoor access point provides a data rate up to 1.1Gbps, and accommodates over 500 wireless devices connections. Built in high transmit power for superior Wi-Fi coverage.

IP67 waterproof and scale-level 14 windproof designed for harsh environments. The SP220V2 is equipped with a PoE out capability that enables cost-effective deployment to smart surveillance applications. Features not only Ethernet and fiber small Form-Factor Pluggable (SFP) backhaul options with added flexibility, but also provide external 5GHz antennas for farther data transmission.

The SP220V2 is ideal for Wi-Fi deployment such as campuses, parks, and tourist attractions, meets the demanding needs of customers across a broad range of industries spanning enterprises and service providers.



30dBm High Power

Maximum transmit power can be up to 30dBm, bringing superior Wi-Fi signal coverage.



MU-MIMO Technology

Supports two spatial streams, to maximize throughput for high-density applications.



PoE Out (SP220V2, SP220V2-E)

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.



PtP Data Transmission (SP220V2-E)

The optional external antenna enables farther PtP transmission.



Robust Product Design

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










Fiber Connector (SP220V2-F)

Adopts fiber cable for farther deployment and cost-effective applications.



Product models options			
	SP220V2	SP220V2-E	SP220V2-F
Standards	IEEE 802.11a/b/g/n/ac		
Radio Chains	2.4GHz: 2x2:2 5GHz: 2x2:2		
Antenna Peak Gain	2.4GHz: 5dBi (Embedded) 5GHz: 6dBi (Embedded)	2.4GHz: 5dBi (Embedded) 5GHz: N-type external connector	2.4GHz: 5dBi (Embedded) 5GHz: 6dBi (Embedded)
Antenna Type	2.4/5GHz: Omni antenna	2.4GHz: Omni antenna 5GHz: External directional antenna	2.4/5GHz: Omni antenna
Supported Data Rates	802.11b: 11 Mbps / 802.11a/g: 54 Mbps 802.11n: 300Mbps / 802.11ac: 867Mbps		
Bandwidth	20 / 40 / 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	5.47GHz – 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, 120, 124, 128, 132, 136, 140, 144
	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
	35dBm w/ 2 ant.		33dBm w/ 2 ant.
	*The maximum power setting will vary by channel and according to individual country regulations.		
Receive Sensitivity	-99dBm (Min.)		
	2.4GHz		5GHz
	HT20: -90dBm/HT40: -86dBm		VHT20: -93dBm/ VHT40: -90dBm/ VHT80: -86dBm

	SP220V2	SP220V2-E	SP220V2-F
Interfaces	2 × 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 LAN port support PoE Out (Max 10Watt, 45+/78-) 1 × Ground terminal	2 × 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 LAN port support PoE Out (Max 10Watt, 45+/78-) 2 × Antenna port 1 × Ground terminal	1 × 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 × 1GbE SFP 1 × Ground terminal
Indicator	Power / System / WLAN / WAN		
Supported Wireless LAN Controllers	WS5G2 / WS7G2 / WS10G2 / WS200G2 / WS500G2 / WS1000G2		
Power	Power Consumption	Power Input	
	< 12W	DC 48V, 0.5A 802.3at PoE	
IP Rating	IP67		
Physical Characteristics	Dimensions	Weight	Mounting Type
	296 (L) × 92 (W) × 283 (H) mm	2 Kg	Pole mount
Environmental	Storage	Operating	
	Temperature: -40 – 80 °C Humidity: 10 – 90%	Temperature: -40 – 70 °C 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) EN 301 489-1 and -17 (Europe) SRRC (China) 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			
SP220V2	802.11ac Wave 2 2 x 2 Dual Band Outdoor Access Points. Mounting bracket included. Does not include power adapter.		
SP220V2-E	802.11ac Wave 2 2 x 2 Dual Band Outdoor Access Points for external antennas. Mounting bracket included. Does not include power adapter.		
SP220V2-F	802.11ac Wave 2 2 x 2 Dual Band Outdoor Access Points for fiber port. Mounting bracket included. Does not include power adapter.		
Optional Accessories			
SP-CBM5	Anti-theft Steel Rope Kit 	SP-MKM5	Two-dimensional Mounting Kit 
SP-WP-CM20	Waterproof Cable Gland 	SP-WP-CM28SFP	Waterproof Cable Gland for Fiber Port 
ANT-D5G-15	15dBi N-type External Antenna 	ANT-D5G-23	23dBi N-type External Antenna 
SP-48063-XX	48V/30W PoE Injector 	*Notice: When ordering power adaptors, you must specify the destination region by indicating -US, -EU instead of -XX.	