



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 added benefit of the Wi-Fi SON (Self-Organizing Network) and Bluetooth location services greatly improves management efficiency.

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.



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.



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	5.15GHz – 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	
	30dBm	27dBm	
	*The maximum power setting will vary by channel and according to individual country regulations.		
Receive Sensitivity	11b: -91dBm / 11a/g: -90dBm / 11n: -92dBm / 11ac: -92dBm		

	SP220V2	SP220V2-E	SP220V2-F
Interfaces	2 x 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 LAN port support PoE Out (Max 13Watt, 45+/78-) 1 x Ground terminal	2 x 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 LAN port support PoE Out (Max 13Watt, 45+/78-) 2 x Antenna port 1 x Ground terminal	1 x 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 x 1GbE SFP 1 x 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 PoE	
IP Rating	IP67		
Physical Characteristics	Dimensions	Weight	Mounting Type
	296 (L) x 92 (W) x 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)		

Optional Accessories				
				
PN	SP-CBM5	SP-MKM5	SP-WP-CM20	SP-WP-CM28SFP
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)	Waterproof cable gland	Waterproof cable gland for fiber port
SP220V2	V	V	V	
SP220V2-E	V	V	V	
SP220V2-F	V	V	V	V

External Antenna Options for SP220V2-E

		
PN	ANT-D5G-15	ANT-D5G-23
Item	15 dBi /5GHz directional-antenna Two N-type cables	23dBi /5GHz directional-antenna Antenna Mount Two U-bolts with plates Two N-type cables