



SP230 Series

2x2 Dual Band PtP/PtMP
802.11ac Wave 2 Outdoor Access Point



SP230 802.11ac Wave 2 2x2 dual band outdoor access point provides a data rate of up to 1.1Gbps. Built in high transmit power for superior Wi-Fi coverage.

Designed for extreme temperatures and environments and include IP67 waterproof and dust resistance that can withstand harsh environments. The SP230 is equipped with a PoE out capability that enables cost-effective deployment to smart surveillance applications. The SP230-S5 features high antenna gain which supports over 5Km data transmission.

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

The SP230 is ideal for Wi-Fi deployment such as rural areas, parks, and campuses, 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, ringing superior Wi-Fi signal coverage.



MU-MIMO Technology

Supports two 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.



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

Long distance data transmission up to 5Km, suitable for rural areas.



Robust Product Design

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






Product models options		
Standards	IEEE 802.11a/b/g/n/ac	
Radio Chains	2.4GHz: 2x2:2 5GHz: 2x2:2	
Antenna Peak Gain	SP230	SP230-S5
	2.4GHz: 5dBi (Embedded) 5GHz: 5dBi (Embedded)	2.4GHz: 5dBi (Embedded) 5GHz: 11dBi (Embedded)
Antenna Type	2.4/5GHz: Omni antenna	2.4GHz: Omni antenna 5GHz: Directional antenna
Interface	2 x 1GbE RJ45 port	

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: 30dBm 5GHz: 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		
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		
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
	151 (L) x 75.5 (W) x 235 (H) mm	1 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
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
SP230	V	V	V
SP230-S5	V	V	V