



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 6Km data transmission.

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.



Flexible installation

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



PtP Data Transmission

Long distance data transmission up to 6Km, 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	5.47GHz – 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: 32dBm 5GHz: 29dBm		
	*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	
Interfaces	2 x 10/100/1000 BASE-T 1 WAN port support 802.3at PoE 1 LAN port support 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		
Power	Power Consumption	Power Input	
	< 12W	DC 48V, 0.5A 802.3at PoE	
IP Rating	IP67		
Physical Characteristics	Dimensions	Weight	Mounting Type
	151 (L) × 75.5 (W) × 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) FCC NCC 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			
SP230	802.11ac Wave 2 2 x 2 Dual Band Outdoor Access Points. Mounting bracket included. Does not include power adapter.		
SP230-S5	802.11ac Wave 2 2 x 2 PtP/PtMP Dual Band Outdoor Access Points. 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-48063-XX	48V/30W PoE Injector 

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