

WOA5200-80E

802.11ac outdoor wireless access point

Datasheet



High performance, integrated outdoor wireless access point

SKSpruce WOA5200-80E is a high performance 802.11ac outdoor wireless access point designed to meet rapidly rising demand for high capacity and bandwidth in outdoor applications. Compliant with IEEE 802.11a/b/g/n/ac standards and supporting 3x3 MIMO, the WOA5200-80E provides wireless access bandwidth up to 1.75 Gbps, delivering a great Quality of Experience for users. Additionally, the WOA5200-80E supports WDS bridging functions to add greater flexibility.

The WOA5200-80E is designed with an IP68-rated enclosure, high performance external antennas, and an internal heating module for deployment in harsh environments. The WOA5200-80E also supports PoE (Power-Over-Ethernet) power to ease installation. The WOA5200-80E delivers high performance in dense outdoor urban environments, such as transit centers, malls, corporate campuses, stadiums, as well as industrial environments like mining and oil & gas applications.

Features

High performance Wi-Fi access point

- Compliant with IEEE 802.11a/b/g/n/ac standards
- High performance dual-band (2.4 GHz and 5 GHz) solution
- 3x3 MIMO and OFDM
- Aggregate 1.75 Gbps wireless access performance (450 Mbps in the 2.4 GHz band; 1.3 Gbps in 5 GHz band)
- Supports up to 256 connections, with up to 80 users at a sustained bandwidth of 1 Mbps

Robust security

- 802.1x, MAC-based, Web-based, and transparent authentication mechanisms
- Allows using of SMS, Facebook® or WeChat® to complete authentication
- Continuously monitors for rogue access points and network attacks
- Supports for up to 32 SSIDs
- User parameters and security policies can be assigned for each SSID

Smart Link connectivity management

- Actively monitors link state and connectivity to the controller or gateway
- Intelligently responds to connectivity interruptions by maintaining user sessions and establishing new sessions without interruption

Flexible data forwarding network architecture

- Supports for split bearer and control channels provides enhanced flexibility for small or large network design
- Configurable for central data forwarding, routing all data traffic through the central gateway to provide complete control of packet flows
- The local forwarding mode provides unified user management and security policy administration for network access and offers high bandwidth and low latency for remote sites

Feature-rich AP with centralized optimization and management

- Supports innovative AP functions, such as PPPoE, Network Address Translation, and DHCP server/client
- Zero-touch join and configuration
- Load balancing of client and network traffic by voice, video, or data service type enhances user QoE (Quality of Experience)
- Seamlessly switching with the cellular network and without service downgrade

Easy to deploy in outdoor applications

- With the highest level of dustproof and waterproof (that is IP68), the device is adaptable for harsh environments
- Supports PoE power mode and built-in high performance antennas (maximum 9 dBi gain)
- Supports pole or bracket mounting
- Equipped with the heating module, the device is adaptable for snowy weather

WOA5200-80E 802.11ac dual-band outdoor access point

Specifications

Physical Specifications

Power input	802.3at power over Ethernet (PoE)
Overall power consumption	<25W
Dimensions (W x D x H)	10.24" x 8.27" x 3.15" (260 mm x 210 mm x 80 mm)
Weight	5.28 lbs (2.40 kg)
Ethernet ports	2 x 10/100/1000Base-T
Indicators	1 WAN/LAN
Operating temperature	-40°F to +131°F (-40°C to +55°C)
Storage temperature	-40°F to +158°F (-40°C to +70°C)
Relative humidity	0–100% noncondensing
Ingress protection	IP68

WLAN Specifications

Antenna	3 x External N-K type radio frequency interface (2.4 GHz) 3 x External N-K type radio frequency interface (5 GHz)
Operating frequency	802.11a/n/ac: 5.15–5.850 GHz 802.11b/g/n: 2.4–2.4835 GHz
Spatial streams	3x3 MIMO
Maximum transmit power	2.4 GHz: 27 dBm (23 dBm per chain) 5 GHz: 25 dBm (20 dBm per chain) (Note: Actual transmit power varies according to the regulations of different countries and regions.)
Modulation technique	IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) IEEE 802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) IEEE 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

Data rates	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: 20 MHz: 6.5–216.7 Mbps 40 MHz: 13.5–450 Mbps IEEE 802.11ac: 20 MHz: 6.5–288.9 Mbps 40 MHz: 13.5–600 Mbps 80 MHz: 29.3–1300 Mbps
Maximum SSIDs	32
Maximum concurrent users	256 (Actual number of concurrent users varies according to the application environment and other factors)
802.11n/ac	Maximal ratio combining (MRC) Maximum likelihood detection (MLD) Automatic channel scanning 20 MHz/40 MHz/80MHz channel bandwidth A-MPDU, A-MSDU Dynamic frequency selection (DFS) Transmit power control (TPC) Unscheduled automatic power save delivery (U-APSD)
Wi-Fi security and authentication	WEP 64/128 WPA/WPA2-PSK-TKIP WPA/WPA2-PSK-CCMP WPA/WPA2-802.1X-TKIP WPA/WPA2-802.1X-CCMP WAPI-PSK/CA MAC, Portal, Transparent Authentication and Dot1x Authentication (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST)
Local AP functions	PPPoE Client, NAT, DHCP Server, DHCP Client Configuration of local SSID, encryption and shared keys
QoS	Supports 802.1p, IP DSCP, 802.11e Supports rate-limiting based on STA/SSID/AP Supports maximum concurrent user limiting based on SSID Supports Radius bandwidth property delivery Supports voice QoS
Management	Remote management: Telnet, SSH, CAPWAP Network management and control: CAPWAP Supports remote upgrades through FTP Supports batch upgrades through multi-service gateway

Note: Specifications are subject to change.



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