

WOA5300-20E

802.11ac Wave 2 dual-band outdoor access point

Datasheet



Ultra-high performance outdoor wireless access point

SKSpruce WOA5300-20E is a high performance, dual-band 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 MU-MIMO and 2x2 MIMO, the WOA5300-20E is capable of high wireless access bandwidth up to 1.267 Gbps.

The WOA5300-20E is designed with an IP68-rated enclosure for deployment in harsh environments. The WOA5300-20E also supports PoE (Power-Over-Ethernet) power to ease installation. The WOA5300-20E 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

Intelligent Wi-Fi access point

- Supports the iWG function and works with the ISM to serve as a local Portal gateway, which can manage 1~32 ceiling APs or 1~64 panel type APs
- Supports local Portal authentication
- Supports intelligent, visualized, and remote O&M, cloud diagnosis, fault warning, as well as level-based and domain-based user management
- Supports IPSec VPN access for enterprise VPN
- Provides various local data collection and statistical analysis services to satisfy long-term operation requirements of customers in all walks of life
- Supports end-user network behavior management, powerful domestic mainstream APP recognition ability, and SSID-based IP address or domain name control and bandwidth limitation and guarantee
- Provides public wireless security audit data APIs
- Supports image and video ad push, and tailored Portal ad webpage
- iAP+conventional AP small-scale networking teams up with the ISM to support easier localization and differentiated management
- Provides a USB 2.0 charging port and extended USB local storage (supporting FAT32 file format)

High performance Wi-Fi access point

- Compliant with IEEE 802.11a/b/g/n/ac standards and 802.11ac Wave 2
- High performance dual-band (2.4 GHz and 5 GHz) solution
- 2x2 MIMO and MU-MIMO
- Aggregate 1.267 Gbps wireless access performance (400 Mbps in the 2.4 GHz band; 867 Mbps in 5 GHz band)
- Supports up to 256 connections

Robust security

- 802.1x, MAC-based, Web-based, and transparent authentication mechanisms
- Allows using of SMS, Facebook® or WeChat® to complete authentication
- Supports WLAN DOS attack detection and protection, as well as radio broadcast message suppression
- User isolation based on SSID, AP or VLAN
- 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

Feature-rich AP with centralized optimization and management

- Supports innovative AP functions, such as PPPoE, Network Address Translation, and DHCP server/client, wireless SSID and encryption settings
- Zero-touch join and configuration

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 and 4 N-K type RF interfaces (2.4 GHz x2, 5 GHz x2)
- Supports pole or bracket mounting
- Equipped with heating module, the device is adaptable for snowy weather
- Supports deployment in (-30°C to +65°C) extreme high or low temperature outdoor environment
- Supports remote management over Telnet or SSH
- Supports centralized forward mode and local forward mode
- Supports 1 Gigabit SFP port, and fiber access is available for ultra long haul outdoor wiring

WOA5300-20E 802.11ac Wave 2 dual-band, dual-radio outdoor access point

Specifications

Physical Specifications

Power input	802.3at power over Ethernet (PoE)
Overall power consumption	< 25 W Supports power-down of unused radios
Dimensions (W x D x H)	9.41" x 7.68" x 3.35" (239 mm x 195 mm x 83 mm)
Weight	3.31 lbs (1.50 kg)
Ports	1 GE WAN 1 SFP 1 Console
Indicators	1 POWER 1 WAN 1 SFP 1 5G WLAN 1 2.4G WLAN
Operating temperature	-22°F to +149°F (-30°C to +65°C)
Storage temperature	-40°F to +185°F (-40°C to +85°C)
Relative humidity	0%–95% noncondensing
Ingress Protection	IP68

WLAN Specifications

Antenna	External antenna, 4 x N-K type interfaces (two 2.4 GHz interfaces and two 5 GHz interfaces)
Operating frequency	802.11a/n/ac: 5.15–5.850 GHz 802.11b/g/n: 2.4–2.4835 GHz
Spatial streams	2.4G: 2x2 MIMO 5G: 2x2 MU-MIMO
Maximum transmit power	27 dBm (24 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, 256-QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

Data rates	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: 6.5–144.4 Mbps 40 MHz: 13.5–400 Mbps IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11ac: 20 MHz: 6.5–173.3 Mbps 40 MHz: 13.5–400 Mbps 80 MHz: 29.3–867 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	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 rate-limiting based on STA/SSID/AP Supports maximum concurrent user limiting based on SSID Supports Radius bandwidth property delivery Supports voice QoS
Management	Network management and control: Telnet/SSH/CAPWAP Supports remote upgrades through FTP Supports NTP, FTP/TFTP, local CLI command reference, local WEB (Web pages can be opened and closed locally or remotely.)

Note: Specifications are subject to change.



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