

WIA3200-80D

802.11ac dual-band indoor access point

Datasheet



High performance indoor wireless access point

The WIA3200-80D is a dual-band 802.11ac indoor wireless access point with 2x2 MIMO support designed to meet rapidly rising demand for high capacity and bandwidth in indoor applications. Capable of high throughput up to 1.167 Gbps and support for 80 simultaneous users at sustained rates of 1 Mbps each, the WIA3200-80D delivers outstanding performance in dense urban indoor settings, such as retail malls, campuses, and commercial buildings.

The WIA3200-80D has a compact low-profile design with ceiling or wall-mount options and high performance internal antennas, and supports local or power-over-Ethernet (PoE) and automatic configuration, making installation easy and efficient. The unit can be deployed as a stand-alone access point or managed via a centralized controller or multi-service gateway that handles all user authentication, routing, radio resource management and network management.

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
- 2x2 MIMO and OFDM
- Aggregate 1.167 Gbps throughput
- 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 use of SMS, or applications like Facebook® or WeChat® to complete authentication
- Continuously monitors for rogue access points and network attacks
- Support 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

- Support 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
- Local forwarding for network access maintains unified user management and security policy administration, while offering 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, wireless SSID and encryption settings
- Zero-touch join and configuration

Easy to deploy, simple to manage

- PoE support and built-in high performance antennas (maximum 3 dBi gain)
- Ceiling or wall mounting options
- Seamlessly integrates into SKSpruce's Network Management System to speed deployment, operation, and maintenance
- Supports Telnet and SSH management for local or remote access

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Specifications

Physical Specifications

Power input	802.3af/at power over Ethernet (PoE) Supports local power input
Overall power consumption	<15W Supports power-down of unused radios
Dimensions (W x D x H)	7.87" x 7.87" x 1.77" (200 mm x 200 mm x 45 mm)
Weight	1.76 lbs (0.80 kg)
Ethernet ports	2 x 10/100/1000Base-T
USB port	1 USB 2.0
Reset	1 Reset button
Indicators	1 Power/status 1 5 GHz WLAN 1 2.4 GHz WLAN 2 Ethernet port
Operating temperature	14°F to 131°F (−10°C to +55°C)
Storage temperature	−40°F to +158°F (−40°C to +70°C)
Relative humidity	5–95% noncondensing

WLAN Specifications

Antenna	Internal antenna, 3 dBi gain
Operating frequency	802.11a/n/ac: 5.15–5.850 GHz 802.11b/g/n: 2.4–2.4835 GHz
Spatial streams	2x2 MIMO
Maximum transmit power	23 dBm (20 dBm per chain)
Modulation technique	DSSS (11b): DBPSK @ 1 Mbps, DQPSK @ 2 Mbps CCK @ 5.5/11 Mbps OFDM (11a/g): BPSK @ 6/9 Mbps QPSK @ 12/18 Mbps 16-QAM @ 24 Mbps 64-QAM @ 48/54 Mbps MIMO-OFDM (11n): MCS 0–23 MIMO-OFDM (11ac): MCS 0–9
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: 13.5–300 Mbps IEEE 802.11ac: 20 MHz: 6.5–216.7 Mbps 40 MHz: 13.5–300 Mbps 80 MHz: 29.3–867 Mbps
Maximum SSIDs	32
Maximum concurrent users	256

802.11n/ac	Maximal ratio combining (MRC) Maximum likelihood detection (MLD) Automatic channel scanning 20 MHz/40 MHz channel bandwidth (802.11ac supports 80 MHz) A-MPDU, A-MSDU Dynamic frequency scaling Unscheduled automatic power save delivery (UAPSD)
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, Dot1x Authentication (EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST)
Local AP functions	PPPoE client, NAT, DHCP server, DHCP client Local SSID, encryption, configuration of shared keys
QoS	Supports 802.1p, IP DSCP, 802.11e Supports rate-limiting based on STA/SSID/AP Supports RADIUS bandwidth property delivery
Management	Local management: console Remote management: Telnet, SSH, CAPWAP Network management and control: CAPWAP Supports remote upgrades through FTP Supports batch upgrades through multi-service gateway
Software	AmOS 2.0

Note: Specifications are subject to change.



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