

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

Specifications

Physical Specifications		802.11n/ac	Maximal ratio combining (MRC)
Power input	802.3af/at power over Ethernet (PoE)		Maximum likelihood detection (MLD)
	Supports local power input	_	Automatic channel scanning
Overall power consumption	<15W		20 MHz/40 MHz channel bandwidth
	Supports power-down of unused radios		(802.11.ac supports 80 MHz)
Dimensions (W x D x H)	7.87" x 7.87" x 1.77"	-	A-MPDU, A-MSDU
	(200 mm x 200 mm x 45 mm)	_	Dynamic frequency scaling
Weight	1.76 lbs (0.80 kg)	_	Unscheduled automatic power save delivery
Ethernet ports	2 x 10/100/1000Base-T	- Wi-Fi security and authentication	(UAF SD) WEP 64/128
USB port	1 USB 2.0	-	WP1 047120 WP4/WP42_PSK_TKIP
Reset	1 Reset button	_	WPA/WPA2-PSK-CCMP
	1 Power/status		WPA/WPA2-802 1X-TKIP
	1 5 GHz WLAN		WPA/WPA2-802 1X-CCMP
	1 2.4 GHz WLAN		WAPI-PSK/CA
		-	MAC Portal Transparent Authentication
Operating temperature	14°F to 131°F (-10°C to +55°C)	-	Dot1x Authentication (EAP-TTLS, EAP-PEAP,
Storage temperature	-40° F to +158°F (-40°C to +70°C)		EAP-SIM/AKA, EAP-FAST)
Relative humidity	5–95% noncondensing	_ Local AP functions	PPPoE client, NAT, DHCP server, DHCP client
			Local SSID, encryption, configuration of shared
WLAN Specifications			
Antenna	Internal antenna, 3 dBi gain	QoS	Supports 802.1p, IP USCP, 802.11e
Operating frequency	802.11a/n/ac: 5.15-5.850 GHz		Supports rate-limiting based on SIA/SSID/AP
	802.11b/g/n: 2.4–2.4835 GHz		Supports RADIUS bandwidth property delivery
Spatial streams	2x2 MIMO	Management	Local management: console
Maximum transmit power	23 dBm (20 dBm per chain)		Remote management: Ielnet, SSH, CAPWAP
Modulation technique	DSSS (11b):		Network management and control: CAPWAP
	DBPSK @ 1 Mbps,		Supports remote upgrades through FIP
	DQPSK @ 2 Mbps		Supports batch upgrades through multi-service
	CCK @ 5.5/11 Mbps	Softwara	
	UFDM (118/g):	Sutwate	AIII03 2.0
	BPSK @ 6/9 MDDS OPSK @ 12/18 Mbps	Note: Specifications are subject to ch	change.
	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		



SKSpruce US

1885 Lundy Avenue San Jose, CA 95131 United States +1 408 449 5604

SKSpruce China

A1, Tianfu Software Park 1129 Century City Road Chengdu, Sichuan, China +86 28 8523 1119

www.SKSpruce.com

December 2015 © SKSpruce Technologies, Inc. All Rights Reserved SKSpruce is a registered trademark All other trademarks are property of their respective owners