WL8200-I1
802.11ac Indoor Dual Band Enterprise AP

Product Overview

WL8200-I1 is a cost-effective enterprise 802.11ac wireless access point (AP) that can support 2x2 MIMO and 4 spatial streams. It provides comprehensive service capabilities and features like simple deployment, automatic AC discovery and configuration, high reliability, high security, and real-time management and maintenance. Based on 802.11ac standard, its total throughput can reach to 1167Mbps which is applicable to commercial chains, medical, warehousing, manufacturing, and logistics scenarios.

802.11a/b/g/n/ac

1167Mbps, 2*2 MIMO

concurrent user 127

Smb

Small office

POE

Standard PoE Input

cloud management

Key Features and Highlights

Entry-level enterprise-class indoor 802.11ac wireless access point
WL8200-I1 supports the 802.11a/b/g/n/ac standard, operates in 2.4 GHz and 5 GHz both bands, and provides an access bandwidth up to 1167 Mbps. Based on a good performance, concurrent users can be 127.

Flexible mounting
WL8200-I1 can support wall mounting, ceiling mounting, you can deploy it according to the actual environment.

Cloud management
WL8200-I1 can operate with the DCN cloud platform seamlessly to provide a better cost-performance solution; it can help SMB customers enjoy the stable wireless connection at a lower cost.

Good PoE compatibility
WL8200-I1 can work well with all PoE switch (cisco, HUAWEI, etc.) which support 802.3af standard, this allows to power up WL8200-I1 directly, a power adapter is not required anymore.

Support WDS mode
WL8200-I1 can support WDS mode under both fits/fat AP mode. Use 2.4GHz and 5GHz to achieve wireless bridging function.

Dual-mode fit & fat
WL8200-I1 can work in fit or fat mode and can flexibly switch between the fit mode and the fat mode according to network planning requirements.

Product Specifications

Hardware Specifications

Item	WL8200-I1
Dimensions (L*W*D) (mm)	160 x 160 x 30
Weight	390g
10/100/1000Base-T port	1
Console port (RJ-45)	N/A
Power supply	802.3af or External power adapter (Input: 100～240V AC , Output: 48 V DC)
Maximum power consumption	<15W
RF port	Built-in 2.4 GHz 2 dBi antenna and 5 GHz 4 dBi antenna
Working frequency band	802.11a/n: 5.150 GHz to 5.850 GHz 802.11b/g/n: 2.4 GHz to 2.483 GHz 802.11ac: 5.150GHz to 5.250GHz 5.250GHz to 5.350GHz 5.725GHz to 5.850GHz
Modulation technology	802.11b：BPSK，QPSK，CCK 802.11a/g/n: BPSK，QPSK，16-QAM，64-QAM 802.11ac：BPSK，QPSK，16-QAM，64-QAM，256-QAM
Transmit power	2.4G：23dBm（Per Chain） 5G：23dBm（Per Chain） (*Note：final output power comply with deployment regulation might be different*)
Power adjustment granularity	1 dBm
Working/Storage temperature	–0°C to +50°C –40°C to +70°C
Working/Storage RH	5% to 95% (non-condensing)

Protection level	IP41

Software Specifications

Item	Feature	WL8200-I1
WLAN	**Product positioning**	Indoor dual-frequency
	Working frequency band	2.4 GHz and 5 GHz
	Bandwidth performance	1167Mbps
	Virtual AP (BSSID)	16
	Concurrent user	127
	Number of spatial streams	2.4G:2 5G:2
	Dynamic channel adjustment (DCA)	Yes
	Transmit power control (TPC)	Yes
	Blind area detection and repair	Yes
	SSID hiding	Yes
	RTS/CTS	Yes
	RF environment scanning	Yes
	Hybrid access	Yes
	Restriction on the number of access us-	Yes
	Link integrity check	Yes
	Intelligent control of terminals based on airtime fairness	Yes
	High-density application optimization	Yes
11n enhancements	**40 MHz bundling**	Yes
	300 Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Maximum likelihood demodulation (MLD)	Yes
	Transmit beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes
	Space-time block coding (STBC)	Yes
	Low-density parity-check code (LDPC)	Yes
Security	**Encryption**	64/128 WEP, TKIP, and CCMP encryption
	802.11i	Yes
	WAPI	Yes
	MAC address authentication	Yes
	LDAP authentication	Yes
	PEAP authentication	Yes
	WIDS/WIPS	Yes
	Protection against DoS attacks	Anti-DoS for wireless management packets
	Forwarding security	Frame filtering, white list, static blacklist, and dynamic blacklist
	User isolation	AP L2 forwarding suppression Isolation between client
	Periodic SSID enabling and disabling	Yes
	Access control of free resources	Yes
	Wireless SAVI	Yes

Item	Feature	WL8200-I1
	ACL	Access control of various data packets such as MAC, IPv4, and IPv6 packets
	Secure access control of APs	Secure access control of APs, such as MAC authentication, password authentication, or digital certificate authentication between an AP and an AC
Forwarding	**IP address setting**	Static IP address configuration or dynamic DHCP address allocation
	IPv6 forwarding	Yes
	IPv6 portal	Yes
	Local forwarding	Yes
	Multicast	IGMP snooping
	Roaming	YES
	AP switching reference	Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc.
	WDS	Yes
QoS	**WMM**	Yes
	Priority mapping	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities
	QoS policy mapping	Mapping of different SSIDs/VLANs to different QoS policies Mapping of data streams that match with different packet fields to different QoS policies
	L2-L4 packet filtering and flow classification	Yes: MAC, IPv4, and IPv6 packets
	Load balancing	Load balancing based on the number of users Load balancing based on user traffic Load balancing based on frequency bands
	Bandwidth limit	Bandwidth limit based on APs Bandwidth limit based on SSIDs Bandwidth limit based on terminals Bandwidth limit based on specific data streams
	Call admission control (CAC)	CAC based on the number of users
	Power saving mode	Yes
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes
	Wireless network VAS	Abundant wireless network VASs; applications based on smart terminals; advertisement push-based on-site locations; the personalized push of the portal
	Multicast enhancement	Multicast to unicast
Management	**Network management**	Centralized management through an AC; both fit and fat modes
	Maintenance mode	Both local and remote maintenance
	Log function	Local logs, Syslog, and log file export
	Alarm	Yes
	Fault detection	Yes
	Statistics	Yes
	Switching between the fat and fit modes	An AP working in fit mode can switch to the fat mode through a wireless AC;

Item	Feature	WL8200-I1
		An AP working in fat mode can switch to the fit mode through a local control port or Telnet.
	Remote probe analysis	Yes
	Dual image (dual-OS) backup mecha-nism	Yes
	Watchdog	Yes

Typical Application

SMB office

- Access bandwidth 1167Mbps
- 802.3af PoE
- Ceiling & wall mounting
- Concurrent user 127

Order Information

Product	Description
WL8200-I1	DCN enter-level Indoor AP, 802.11a/b/g/n+ 802.11ac (2.4GHz & 5GHz dual mode, 2*2, fat & fit, 802.3 af, managed by DCN hardware controller & cloud platform