WL8200-I3(R2.0)

Indoor 802.11ac Wave2 Triple Band Enterprise AP

Product Overview

DCN WL8200-I3(R2.0) is a high-performance enterprise Wi-Fi AP (Access Point), which can support 802.11ac Wave2 and provide Gigabit Ethernet uplink connectivity. With high performance 2.9Gbps access bandwidth, WL8200-I3(R2.0) is expected to have high density client connectivity to deliver better Wi-Fi user experience. 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.

802.11a/b/g/n/ac wave 2

2.9Gbps, 4*4 MIMO

Triple band

concurrent user 350

flexible power input

cloud management

Key Features and Highlights

High-level enterprise-class indoor 802.11ac Wave 2 wireless access point
WL8200-I3(R2) supports the 802.11a/b/g/n/ac wave 2 standards, it is the best choice for a high-profile customer to deploy where the high-performance accessing bandwidth is required.

Flexible installation
WL8200-I3(R2) supports wall mounting, ceiling mounting, T-keel mounting, desktop mounting, you can deploy it almost everywhere that you want.

Triple band total 2.9Gbps for a high-density scene
WL8200-I3(R2) support tri-band, accessing bandwidth can reach to 2.9Gbps, it could connect more clients simultaneously, improve the overall throughput of the WiFi network greatly.

Dual-mode fit & fat
WL8200-I3(R2) can work in fit or fat mode and can flexibly switch between the fit mode and the fat mode according to network planning requirements.

Anti-thief
WL8200-I3(R2) can work with Kensington technology to protect the investment of customers, which is very important for customers.

Flexible power input
The power input of WL8200-I3(R2) can be a standard PoE or DC adapter, users can make choice accordingly.

Specifications

Hardware Specifications:

Item	WL8200-I3(R2)
Dimensions (L*W*D) (mm)	247 x 153 x 30
10/100 /1000Base-T port	2
Console port (RJ-45)	1
USB 2.0 port	1
Power supply	802.3af & at and External power adapter(Input: 100～240V AC，Output: 12 V DC)
Maximum power consumption	<18W
RF port	Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 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-I3(R2)
WLAN	**Product positioning**	Indoor tri-band
	Working frequency band	2.4 GHz, 5GHz and 5 GHz or 2.4GHz, 2.4GHz and 5GHz
	Bandwidth performance	2.9Gbps
	Virtual AP (BSSID)	48
	Concurrent user	350
	Number of spatial streams	2.4G:2 5G:4 2.4G&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 users	Yes
	Link integrity check	Yes
	Forcing terminals to roam based on signal strength	Yes
	Intelligent control of terminals based on airtime fairness	Yes
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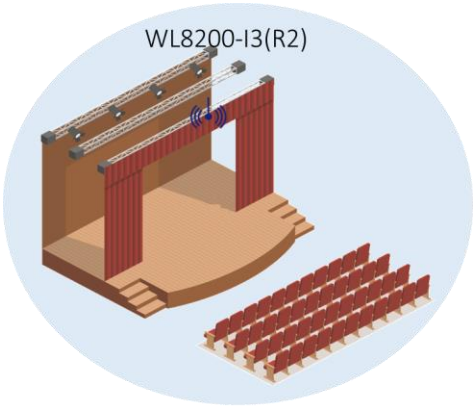
	High-density application optimization	Yes
11n enhance-ments	**40 MHz bundling**	Yes
	300 Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Maximum likelihood demodulation (MLD)	Yes
	Transmit beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes
	Space-time block coding (STBC)	Yes
	Low-density parity-check code (LDPC)	Yes
Security	**Encryption**	64/128 WEP, TKIP, and CCMP encryption
	802.11i	Yes
	Portal authentication	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 dy-namic blacklist
	User isolation	AP L2 forwarding suppression isolation between client

Item	Feature	WL8200-I3(R2)
	Periodic SSID enabling and disabling	Yes
	Access control of free resources	Yes
	Wireless SAVI	Yes
	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
	802.11W	Yes, encryption of management frames
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
	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; An AP working in fat mode can switch to the fit mode through a local control port or Telnet.

Item	Feature	WL8200-I3(R2)
	Remote probe analysis	Yes
	Watchdog	Yes
Value added service	**Value added marketing**	Support: various apps based on intelligent terminals, advertising push based on location, personalized push of portals
	Value added authentication	WeChat, SMS, QR code
	Passenger flow analysis	yes

Typical Application



Great hall

- 802.11ac wave 2
- Access bandwidth 2.9Gbps
- 3 operational radio bands
- High density access scenario
- Concurrent user 350+

Order Information

Product	Description
WL8200-I3(R2)	DCN high density Indoor AP, 802.11a/b/g/n+ 802.11ac Wave 2 (2.4GHz 2*2, 2.4GHz or 5GHz 2*2, 5GHz 4*4) fat/fit, 802.3 af & at, managed by DCN hardware controller & cloud platform