

## WL8200-I2(R2.0)

### Indoor 802.11ac Wave2 Dual Band Enterprise AP

#### Product Overview

DCN WL8200-I2(R2.0) is a high-performance enterprise Wi-Fi AP. It supports 802.11ac Wave2 standard and provides Gigabit Ethernet upstream connectivity. The maximum access bandwidth can be up to 1167Mbps. 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. WL8200-I2 is ideal for enterprise, government and hospitality markets.



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



1167Mbps, 2\*2 MIMO



concurrent user 254



anti-thief



standard PoE input



cloud management

## Key Features and Highlights

### Middle-level enterprise-class indoor 802.11ac Wave 2 wireless access point

WL8200-I2(R2) supports the 802.11a/b/g/n/ac wave 2 standards, operates in both 2.4 GHz and 5 GHz band, and provides an access bandwidth up to 1167 Mbps. This model is the best choice for middle-level office or company as it can support concurrent users up to 254.

### Wireless user management at a fine granularity

WL8200-I2(R2) can support a maximum of 32 WLANs to implement multi-layer multi-service management of wireless users at a fine granularity. Each WLAN supports access control and uplink/downlink rate limit based on MAC or IP addresses. These WLANs may be bound to virtual local area networks (VLANs).

### Flexible installation

WL8200-I2(R2) supports wall mounting, ceiling

mounting, T-keel mounting, desktop mounting, you can deploy it almost everywhere that you want.

### Anti-thief

WL8200-I2(R2) can work with Kensington technology to protect the investment of customers, which is very important to the specific customer.

### Good PoE compatibility

WL8200-I2(R2) can work well with all PoE switch (cisco, HUAWEI, juniper, etc.) which support 802.3af & at standard, this allows to power up WL8200-I2(R2) directly, a power adapter is not required anymore.

### Dual-mode fit & fat

WL8200-I2(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.

## Product Specifications

### Hardware Specifications

Item	WL8200-I2(R2)
<b>Dimensions (L*W*D) (mm)</b>	247 x 153 x 30
<b>10/100 /1000Base-T port</b>	1
<b>Console port (RJ-45)</b>	N/A
<b>USB 2.0</b>	1
<b>Power supply</b>	802.3af & at and External power adapter (Input: 100 ~ 240V AC , Output: 12 V DC)
<b>Maximum power consumption</b>	<15W
<b>RF port</b>	Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 dBi antenna
<b>Working frequency band</b>	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
<b>Modulation technology</b>	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
<b>Transmit power</b>	2.4G : 23dBm (Per Chain) 5G : 23dBm (Per Chain) (Note : final output power comply with deployment regulation might be different)
<b>Power adjustment granularity</b>	1 dBm
<b>Working/Storage temperature</b>	-0°C to +50°C -40°C to +70°C
<b>Working/Storage RH</b>	5% to 95% (non-condensing)

Protection level	IP41
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## Software Specifications

Item	Feature	WL8200-I2(R2)
WLAN	Product positioning	Indoor dual-frequency
	Working frequency band	2.4 GHz and 5 GHz
	Bandwidth performance	1167Mbps
	Virtual AP (BSSID)	32
	Concurrent user	254
	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 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 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
	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 dynamic blacklist
User isolation	AP L2 forwarding suppression Isolation between client	

Item	Feature	WL8200-I2(R2)
	<b>Periodic SSID enabling and disabling</b>	Yes
	<b>Access control of free resources</b>	Yes
	<b>Wireless SAVI</b>	Yes
	<b>ACL</b>	Access control of various data packets such as MAC, IPv4, and IPv6 packets
	<b>Secure access control of APs</b>	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
<b>Forwarding</b>	<b>IP address setting</b>	Static IP address configuration or dynamic DHCP address allocation
	<b>IPv6 forwarding</b>	Yes
	<b>IPv6 portal</b>	Yes
	<b>Local forwarding</b>	Yes
	<b>Multicast</b>	IGMP snooping
	<b>Roaming</b>	Yes
	<b>AP switching reference</b>	Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc.
<b>QoS</b>	<b>WDS</b>	Yes
	<b>WMM</b>	Yes
	<b>Priority mapping</b>	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities
	<b>QoS policy mapping</b>	Mapping of different SSIDs/VLANs to different QoS policies Mapping of data streams that match with different packet fields to different QoS policies
	<b>L2-L4 packet filtering and flow classification</b>	Yes: MAC, IPv4, and IPv6 packets
	<b>Load balancing</b>	Load balancing based on the number of users Load balancing based on user traffic Load balancing based on frequency bands
	<b>Bandwidth limit</b>	Bandwidth limit based on APs Bandwidth limit based on SSIDs Bandwidth limit based on terminals Bandwidth limit based on specific data streams
	<b>Call admission control (CAC)</b>	CAC based on the number of users
	<b>Power saving mode</b>	Yes
	<b>Automatic emergency mechanism of APs</b>	Yes
	<b>Intelligent identification of terminals</b>	Yes
<b>Multicast enhancement</b>	Multicast to unicast	
<b>Management</b>	<b>Network management</b>	Centralized management through an AC; both fit and fat modes
	<b>Maintenance mode</b>	Both local and remote maintenance
	<b>Log function</b>	Local logs, Syslog, and log file export
	<b>Alarm</b>	Yes
	<b>Fault detection</b>	Yes
	<b>Statistics</b>	Yes

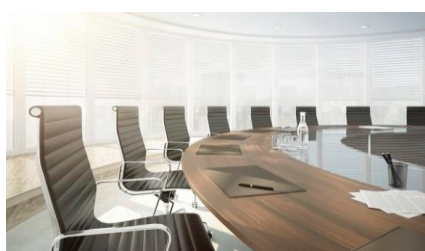
Item	Feature	WL8200-I2(R2)
	<b>Switching between the fat and fit modes</b>	An AP working in fit mode can switch to the fat mode through a wireless AC; An AP working in fat mode can switch to the fit mode through a local control port or Telnet.
	<b>Remote probe analysis</b>	Yes
	<b>Watchdog</b>	Yes
<b>Value added service</b>	<b>Value added marketing</b>	Support: various apps based on intelligent terminals, advertising push based on location, personalized push of portals
	<b>Value added authentication</b>	WeChat, SMS, QR code
	<b>Passenger flow analysis</b>	yes

## Typical Application

WL8200-I2 is ideal AP for indoor Wi-Fi coverage, with zero touch provisioning, advanced RF control and cost-effective design, it could offer best indoor Wi-Fi experience for customers.



Class room



Small Meeting room



Office

WL8200-I2(R2)



Hospital

- 802.11ac wave 2
- Access bandwidth 1167Mbps
- 802.3af/at PoE
- Anti-thief
- Concurrent user 254

## Order Information

Product	Description
<b>WL8200-I2(R2)</b>	DCN Enhanced Indoor AP, 802.11a/b/g/n+ 802.11ac Wave 2 (2.4GHz & 5GHz dual mode, 2*2, fat&fit, 802.3 af & at, managed by DCN hardware controller & cloud platform

