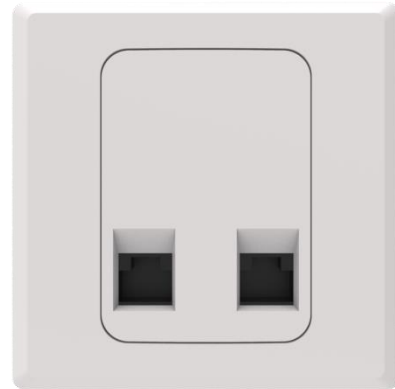# WL8200-WL2

802.11ac In-wall Dual Band Enterprise AP

Product Overview

The WL8200-WL2 is 802.11ac based cost-effective wireless access point (AP) released by DCN for the hospitality and education industry. WL8200-WL2 supports the 802.11AC standard, the total available wireless bandwidth of 733Mbps. (2.4G band can provide 300Mbps bandwidth and 5G band can provide 433Mbps bandwidth)

Wi Fi
802.11a/b/g/n/ac

concurrent user 50

733Mbps, 2*2 MIMO

POE
standard PoE input

x86
Standard size

cloud management

Key Features and Highlights

Easy to deploy
WL8200-WL2 could be installed in a standard 86 panel, could be installed quickly with just fixing two screws, so installing one AP just need less than 5 minutes.

Dual-mode fit & fat
WL8200-WL2 can work in fit or fat mode and can flexibly switch between the fit mode and the fat mode according to network planning requirements.

High cost-effective
WL8200-WL2 can be used for student dormitories and hotels, it provides 733Mbps bandwidth at a very low price. It is an ideal choice for high-cost effective devices.

Cloud management
WL8200-WL2 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.

Product Specifications

Hardware Specifications

Item	WL8200-WL2
Dimension (L*W*D) (mm)	$86 \times 86 \times 22$
Ethernet ports	1 * 10/100Base-T uplink port, 2 * 10/100Base-T downlink ports
Power supply	802.3af & 802.3at
Maximum power consumption	< 6W
Antenna gain	4dBi
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
Transmitting power	17dBm
Power adjustment granularity	1dBm
Working/Storage temperature	0°C～50°C/-40°C～70°C
Working/Storage RH	5% ～95% no condensing

Software Specifications

Item	Feature	WL8200-WL2
WLAN	Product positioning	In-wall dual-band AP
	Working frequency band	2.4GHz and 5GHz
	Access bandwidth	733Mbps
	Virtual AP (BSSID)	32
	Concurrent user	50

Item	Feature	WL8200-WL2
	Number of spatial streams	2.4: 2 5G: 1
	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	Yes
	Link integrity check	Yes
	Prohibiting the access of terminals with weak signals	Yes
	Intelligent control of terminals based on airtime fairness	Yes
802.11ac enhancement	Number of spatial streams	1
	Working frequency band	5GHz
	80 MHz bundling	Yes
	433Mbps（PHY）	Yes
	Frame aggregation (A-MPDU)	Yes
	Frame aggregation (A-MSDU)	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
8011n enhancement	Number of spatial streams	2
	Working frequency band	2.4GHz
	40 MHz bundling	Yes
	300 Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Frame aggregation (A-MSDU)	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
	Encryption	Yes 64/128WEP, TKIP, 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

Item	Feature	WL8200-WL2
	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
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
	Power saving mode	Yes
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes
	Multicast enhancement	Multicast to unicast
	WMM	Yes
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-WL2
	Remote probe analysis	Yes
	Watchdog	Yes
	Network management	Centralized management through an AC; both fit and fat modes

Typical Application

WL8200-WL2

- 802.11a/b/g/n/ac
- 3 space stream, 733Mbps
- 802.3af & at PoE
- X86 standard, easy installation

Hotel

Order Information

Product	Description
WL8200-WL2	802.11AC dual-band wireless in-wall AP (support 2.4GHz &5GHz, the maximum bandwidth 733Mbps, built-in antenna; support 1* 100M uplink port, 2 * 100M downlink ports, 802.3af & at PoE standard)