

## WL8200-XW1

### In-wall 802.11ax Wi-Fi 6 Dual Band Enterprise AP

#### Product Overview

WL8200-XW1 is a dual-band high-performance in-wall gigabit wireless access point device based on the 802.11ax standard launched by DCN, it could offer maximum 1775Mbps access rate. WL8200-XW1 works in the 2.4GHz and 5GHz frequency bands and supports advanced wireless technologies such as MU-MIMO, OFDMA, spatial multiplexing, and TWT. The first radio of WL8200-XW1 works in the 2.4GHz frequency band and can provide a maximum access rate of 575Mbps; the second radio works in the 5GHz frequency band and can provide a maximum access rate of up to 1200Mbps.



802.11a/b/g/n/ac/ax



1775Mbps, 2\*2 MIMO



Concurrent 200+ user



Standard PoE input



Standard size



Cloud management



Downlink Port

## Key Features and Highlights

### 802.11ax Wi-Fi 6 wireless in-wall access point

WL8200-XW1 supports the 802.11ax standard, operates in both 2.4 GHz and 5 GHz band, and provides an access bandwidth up to 1775 Mbps. This model is a high-end in-wall access point for hotel, education, government and business networks.

### Wired and wireless gigabit access

WL8200-XW1 integrated gigabit wired uplink port, can truly meet the bandwidth requirement of wireless clients.

### Easy to deploy x86 standard panel

WL8200-XW1 panel supports 86 box standard, and can perfectly fit plug-in installed to any standard panel, With the use of the PoE cable, the whole installation will be low cost, no noise, short period (the time to install an AP is less than 3 minutes).

### Downlink Port

WL8200-XW1 provides one gigabit downlink port for the accessing of wired devices, which improves the flexibility of networking deployment.

### Good PoE compatibility

WL8200-XW1 can work well with all PoE switch (cisco, HUAWEI, juniper, etc.) which support 802.3at standard, this allows to power up WL8200-XW1 directly, power adapter is not required anymore.

### Dual-mode fit & fat

WL8200-XW1 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-XW1
<b>Dimensions (L*W*D) (mm)</b>	86 x 86 x 51.8
<b>Uplink-port</b>	1* 10/100 /1000Base-T (PoE)
<b>Downlink port</b>	1* 10/100 /1000Base-T
<b>Power supply</b>	802.3 at PoE
<b>LED indicators</b>	Power
<b>Maximum power consumption</b>	<12W
<b>Antenna gain</b>	Built-in 2.4 GHz 3 dBi antenna and 5 GHz 3 dBi antenna
<b>Working frequency band</b>	802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11a/n/ac/ac wave 2/ax: 5.150GHz to 5.350GHz 5.47GHz to 5.725GHz 5.725GHz to 5.850GHz
<b>Modulation technology</b>	11b : DSS: CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps 11a/g : OFDM:64QAM@48/54Mbps,16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps 11n : MIMO-OFDM: BPSK, QPSK,16QAM,64QAM 11ac : MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,256QAM 11ax: MIMO-OFDMA: BPSK, QPSK,16QAM,64QAM,256QAM,1024QAM
<b>Transmit power</b>	2.4G: 20dBm 5G : 20dBm (Note : final output power comply with deployment regulation and might be different)
<b>Power adjustment granularity</b>	1 dBm
<b>Working/Storage temperature</b>	-10°C to +55°C -40°C to +70°C

<b>Working/Storage RH</b>	5% to 95% (non-condensing)
<b>Protection level</b>	IP41

### Software Specifications

Item	Feature	WL8200-XW1
WLAN	<b>Product positioning</b>	In-wall dual-frequency
	<b>Working frequency band</b>	2.4GHz and 5GHz
	<b>Bandwidth performance</b>	1775Mbps
	<b>Virtual AP (BSSID)</b>	8 ( 4 for each radio )
	<b>Concurrent user</b>	254
	<b>Number of spatial streams</b>	2.4GHz:2, 5GHz:2
	<b>Dynamic channel adjustment (DCA)</b>	Yes
	<b>Blind area detection and repair</b>	yes
	<b>SSID hiding</b>	Yes
	<b>RTS/CTS</b>	Yes
	<b>RF environment scanning</b>	Yes
	<b>Hybrid access</b>	Yes
	<b>Restriction on the number of access users</b>	Yes
	<b>Link integrity check</b>	Yes
	<b>Accessing control of terminals based on signal strength</b>	Yes
	<b>Forcing terminals to roam based on signal strength</b>	Yes
<b>Intelligent control of terminals based on airtime fairness</b>	Yes	
<b>High-density application optimization</b>	Yes	
802.11ax enhancements	<b>Space streams</b>	2.4GHz:2, 5GHz:2
	<b>Frequency band</b>	2.4GHz + 5GHz
	<b>80 MHz bundling</b>	Yes
	<b>1200Mbps ( PHY )</b>	Yes
	<b>Frame aggregation (A-MPDU)</b>	Yes
	<b>Frame aggregation (A-MSDU)</b>	Yes
	<b>Maximum likelihood demodulation (MLD)</b>	Yes
	<b>Transmit beamforming (TxBF)</b>	Yes
	<b>Maximum ratio combining (MRC)</b>	Yes
	<b>Space-time block coding (STBC)</b>	Yes
	<b>Low-density parity-check code (LDPC)</b>	Yes
Security	<b>Encryption</b>	64/128 WEP, TKIP, and CCMP encryption
	<b>802.11i</b>	Yes
	<b>Portal authentication</b>	Yes
	<b>MAC address authentication</b>	Yes
	<b>LDAP authentication</b>	Yes
	<b>PEAP authentication</b>	Yes
	<b>WIDS/WIPS</b>	Yes
	<b>Protection against DoS attacks</b>	Anti-DoS for wireless management packets
	<b>Forwarding security</b>	Frame filtering, white list, static blacklist, and dynamic blacklist
<b>User isolation</b>	AP L2 forwarding suppression Isolation between client	

Item	Feature	WL8200-XW1
	<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
	Binding SSID with VLAN	Yes
	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>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

Item	Feature	WL8200-XW1
	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.
	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

WL8200-XW1



Dormitory room

- 802.11a/b/g/n/ac /ax
- High performance, 1775Mbps
- 802.3 at PoE
- X86 standard, easy installation
- Multiple gigabit downlink port

## Typical Application

## Order Information

Product	Description
WL8200-XW1	DCN Indoor Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported(2.4GHz:2*2, 5GHz 2*2), max 1775Mbps access rate, fat & fit, 802.3 at, managed by DCN hardware controller & cloud platform