

## WL8200-X2

### Indoor 802.11ax Wi-Fi 6 Dual Band Enterprise AP

#### Product Overview

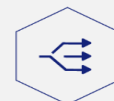
WL8200-X2 is a dual-band high-performance gigabit wireless access point device based on the 802.11ax standard launched by DCN, it could offer maximum 1775Mbps access rate. WL8200-X2 works in the 2.4GHz and 5GHz frequency bands and supports advanced wireless technologies such as MU-MIMO, OFDMA, spatial multiplexing, and TWT. The first radio of WL8200-X2 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 user 200+



anti-theft



standard PoE input



cloud management

## Key Features and Highlights

### Entry-level enterprise-class indoor 802.11ax Wi-Fi 6 wireless access point

WL8200-X2 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 the best choice for Entry-level office or company as it can support concurrent users up to 254.

### Wireless user management at a fine granularity

WL8200-X2 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-X2 supports wall mounting, ceiling mounting, T-keel mounting, you can deploy it almost everywhere

that you want.

### Anti-thief

WL8200-X2 can work with Kensington technology to protect the investment of customers, which is very important to the specific customer.

### Good PoE compatibility

WL8200-X2 can work well with all PoE switch (cisco, HUAWEI, juniper, etc.) which support 802.3af & at standard, this allows to power up WL8200-X2 directly, a power adapter is not required anymore.

### Dual-mode fit & fat

WL8200-X2 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-X2
<b>Dimensions (L*W*D) (mm)</b>	247 x 153 x 30
<b>10/100 /1000Base-T port</b>	2
<b>Console port (RJ-45)</b>	1
<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>	<13W
<b>RF port</b>	Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 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 5.250GHz 5.250GHz to 5.350GHz 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: 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</b>	-10°C to +55°C

<b>temperature</b>	-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-X2
WLAN	<b>Product positioning</b>	Indoor dual-frequency
	<b>Working frequency band</b>	2.4GHz and 5GHz
	<b>Bandwidth performance</b>	1775Mbps
	<b>Virtual AP (BSSID)</b>	32
	<b>Concurrent user</b>	254
	<b>Number of spatial streams</b>	2.4GHz:2, 5GHz:2
	<b>Dynamic channel adjustment (DCA)</b>	Yes
	<b>Transmit power control (TPC)</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>WAPI</b>	Yes
	<b>MAC address authentication</b>	Yes
	<b>LDAP authentication</b>	Yes
	<b>PEAP authentication</b>	Yes
	<b>WIDS/WIPS</b>	Yes

Item	Feature	WL8200-X2
	<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
	<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>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

Item	Feature	WL8200-X2
	<b>Log function</b>	Local logs, Syslog, and log file export
	<b>Alarm</b>	Yes
	<b>Fault detection</b>	Yes
	<b>Statistics</b>	Yes
	<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-X2 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.



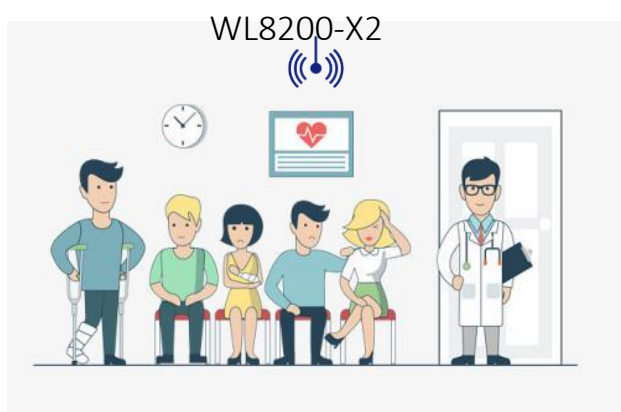
Class room



Small Meeting room



Office



- 802.11ax, Wi-Fi 6
- Access bandwidth 1775Mbps
- 802.3af/at PoE
- Anti-thief
- Concurrent user 254

**Order Information**

Product	Description
<b>WL8200-X2</b>	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 af & at, managed by DCN hardware controller & cloud platform