

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 |
|-------------------------------------|---|
| Dimensions (L*W*D) (mm) | 247 x 153 x 30 |
| 10/100 /1000Base-T port | 2 |
| Console port (RJ-45) | 1 |
| USB 2.0 | 1 |
| Power supply | 802.3af & at and External power adapter (Input: 100 ~ 240V AC , Output: 12 V DC) |
| Maximum power consumption | <13W |
| RF port | Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 dBi antenna |
| Working frequency band | 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 |
| Modulation technology | 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 |
| 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 | -10°C to +55°C |

| | |
|---------------------------|----------------------------|
| temperature | -40°C to +70°C |
| Working/Storage RH | 5% to 95% (non-condensing) |
| Protection level | IP41 |

Software Specifications

| Item | Feature | WL8200-X2 |
|---|--|---------------------------------------|
| WLAN | Product positioning | Indoor dual-frequency |
| | Working frequency band | 2.4GHz and 5GHz |
| | Bandwidth performance | 1775Mbps |
| | Virtual AP (BSSID) | 32 |
| | Concurrent user | 254 |
| | Number of spatial streams | 2.4GHz:2, 5GHz: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 |
| | Accessing control of terminals based on signal strength | Yes |
| Forcing terminals to roam based on signal strength | Yes | |
| Intelligent control of terminals based on airtime fairness | Yes | |
| High-density application optimization | Yes | |
| 802.11ax enhancements | Space streams | 2.4GHz:2, 5GHz:2 |
| | Frequency band | 2.4GHz + 5GHz |
| | 80 MHz bundling | Yes |
| | 1200Mbps (PHY) | Yes |
| | Frame aggregation (A-MPDU) | Yes |
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| | 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 | |

| Item | Feature | WL8200-X2 |
|-------------------|---|---|
| | 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 |
| | 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. |
| 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 |

| Item | Feature | WL8200-X2 |
|----------------------------|--|---|
| | 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. |
| | 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

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.



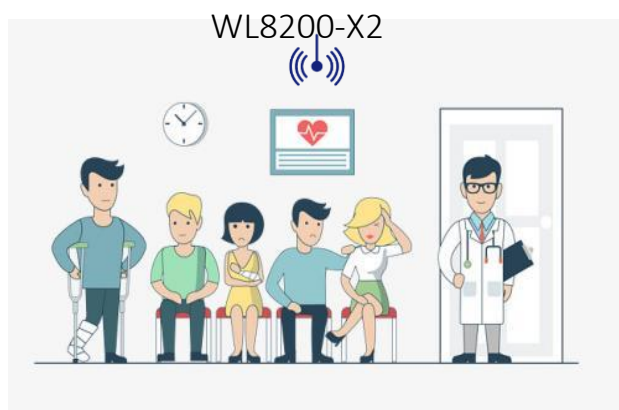
Class room



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 |
|------------------|---|
| WL8200-X2 | 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 |