

## WL8200-XIT2

### 802.11ax Outdoor Dual-Band Enterprise AP

#### Product Overview

DCN WL8200-XIT2 is high performance outdoor wireless access point which can support 2.4 GHz and 5 GHz band, adopting technologies such as Multi-User Multiple-Input Multiple-Output (MU-MIMO) and orthogonal frequency division multiplexing (OFDM), providing a data transmission rate of at most 575 Mbps in 2.4GHz band and 1200Mbps in 5GHz band. It supports up to 254 concurrent users. With integrated antenna inside, WL8200-XIT2 is widely used at outdoor WIFI coverage networks, such as campus, streets, rural area, resorts and scenic spots.



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



concurrent user 254



1775Mbps, 2\*2 MIMO



Embedded directional antenna

**IP68**

Water & Dust proof



Standard PoE input 802.3at



Cloud management



Long distance uplink

## Highlights

### High-level outdoor 802.11ax wireless access

The WL8200-XIT2 supports the 802.11ax standard and can operate in 2.4 GHz and 5 GHz both bands. It provides an access bandwidth up to 1.775Gbps, which can connect users up to 254 simultaneously.

### Fiber uplink for long-distance connection

Fiber port used as uplink ports, which break through the limitations of the conventional copper port, the distance is no longer a bottleneck.

### Operating in a wide temperature range

Thanks to deliberate hardware design and the selection of dedicated components it can operate in a broad temperature range from -40°C to 65°C.

### Highest IP68 Anti-dust & water standard

WL8200-XIT2 comply IP68 can be deployed in the harshest outdoor environment.

### Good PoE compatibility

WL8200-XIT2 can work well with the third-part PoE switches that support 802.3at standard.

### High-performance RF

The professional optimized design is employed for the RF module of the WL8200-XIT2, integrated directional antenna supports 27 dB transmission power which can greatly improve wireless coverage.

### Cloud management

WL8200-XIT2 can operate with the DCN cloud platform seamless to provide a better cost-performance solution;

### Multi-mode: fit, fat, bridge

WL8200-X2 R2 can work in fit, fat or bridge mode and can flexibly switch between these three modes according to network planning requirements.

## Product Specifications

### Hardware Specifications

Item	WL8200-XIT2
Dimensions (L*W*D) (mm)	214 × 214 × 68
Working Frequency	2.4G : 802.11b/g/n/ax 5G : 802.11a/n/ac/ax
Maximum Data Rate	2.4G : 575Mbps 5G : 1200Mbps
Physical Port	1 * 10/100/1000Base-T PoE port for uplink 1 * 1000M SFP fiber port ( Combo ) 1 * 10/100/1000Base-T downlink port 1 build-in M.2 port for IoT and LTE expansion
LED indicator	Yes
Console Port	Yes
Mounting mode	Pole-mounting
PoE	802.3at
Maximum power consumption	< 18W
Antenna type	Internal directional antenna: horizontal 130°,vertical 74°
Antenna gain	2.4G 10dBi, 5G 10dBi
Transmit power	2.4G: 27dBm (Per Chain) 5G : 27dBm (Per Chain) (Note : final output power comply with deployment regulation might be different)
Transmit power adjustment granularity	1 dBm
Working frequency band	802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11a/n/ac/ac wave 2/ax: 5.150 ~ 5.350GHz 5.47 ~ 5.725GHz 5.725 ~ 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
<b>Working/Storage temperature</b>	-40°C to +65°C -45°C to +75°C
<b>Working/Storage RH</b>	5% to 95% (non-condensing)
<b>Protection level</b>	IP68

## Software Specifications

Item	Feature	WL8200-XIT2
WLAN	<b>Product positioning</b>	Outdoor dual frequency
	<b>Working frequency band</b>	2.4 GHz and 5 GHz
	<b>Bandwidth performance</b>	1775Mbps
	<b>Virtual AP (BSSID)</b>	32
	<b>Concurrent user</b>	254
	<b>Number of spatial streams</b>	2.4G: 2    5G: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	<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	

Item	Feature	WL8200-XIT2
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
	<b>Real time spectrum guard</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
	<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
Forwarding	<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>WDS</b>	Yes
QoS	<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

Item	Feature	WL8200-XIT2
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes
	Multicast enhancement	Multicast to unicast
Management	Network management	<b>Centralized management through an AC; both fit and fat modes</b>
	Mesh networking	Through central AP to manage the RE AP
	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, fit and bridge 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 or bridge mode through a local control port or Telnet(web) An AP working in bridge mode can switch to the fit or fat mode through a local control port or Telnet(web)
	Remote probe analysis	Yes
Watchdog	Yes	
Value added service	WiFi location	For WiFi terminal and tag
	WiFi probe	Yes
	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, Facebook
	Passenger flow analysis	yes

## Typical Application



- 802.11ax
- Uplink fiber port
- 802.3at PoE
- IP68
- Concurrent user 254
- Embedded directional antenna

**Order Information**

Product	Description
<b>WL8200-XIT2</b>	802.11a/b/g/n/ac/ac wave 2/ax outdoor high-performance AP, 2.4GHz & 5GHz dual band, 1.775Gbps, 2*10/100/1000Base-T GE ports and 1*SFP fiber port, 1*console port, 802.3 at PoE, internal 10dBi directional antenna: horizontal 130°,vertical 74°, built-in m.2 interface for IoT and LTE expansion, basic wall and pole mounting kit (Interface waterproof adhesive tape, grounding cable and PoE power supply module shall be purchased separately)
<b>DCWL-PoEINJ-G+</b>	802.3at PoE module with one 10/100/1000Mbps port