

## 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;

### Dual-mode fit & fat

WL8200-XIT2 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-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
<b>Security</b>	<b>Encryption</b>	64/128 WEP, TKIP, and CCMP

Item	Feature	WL8200-XIT2
		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
<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>WDS</b>	Yes
<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

Item	Feature	WL8200-XIT2
		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>	<b>Centralized management through an AC; both fit and fat modes</b>
	<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
	<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>WiFi location</b>	For WiFi terminal and tag
	<b>WiFi probe</b>	Yes
	<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, Facebook
	<b>Passenger flow analysis</b>	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