WL8200-T3

802.11ac Wave 2 Outdoor Triple Band Enterprise AP

Product Overview

The WL8200-T3 is high-performance outdoor wireless access point which can support 802.11ac wave 2 standard with triple band (2.4 GHz & 5 GHz, and 2.4G or 5G band), by adopting technologies such as multiple-input multiple-output (MIMO) and orthogonal frequency division multiplexing (OFDM), WL8200-T3 can provide a data transmission rate of at most 400 Mbps in 2.4GHz band and 1300Mbps in 5GHz band.. It supports up to 350 concurrent users. WL8200-IT3 is widely used at outdoor WIFI coverage networks, such as campus, streets, rural area, resorts and scenic spots.

802.11a/b/g/n/ac wave 2

Concurrent user 254

1700Mbps, 2*2 MIMO

External antenna

IP68

Water & dust proof

Flexible power input

Cloud management

SFP

Long distance uplink

Key Features and Highlights

High-level outdoor wave 2 wireless access
WL8200-T3 supports the 802.11ac wave 2 standards and can support triple band (in 2.4 GHz and 5 GHz band, 2.4 GHz or 5 GHz), it provides an access bandwidth of up to 1.7Gbps, it can connect users up to 350 simultaneously.

Fiber uplink for long-distance connection
Fiber port used as uplink ports for access, 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 operating in a broad temperature range from -40°C to 65°C.

IP68 anti-dust & water standard
WL8200-T3 comply IP68 can be deployed in the harshest outdoor environment.

Multiple antenna options
WL8200-T3 supports external antennal (omnidirectional, directional), the customer can make use accordingly.

Cloud management
WL8200-T3 can operate with the DCN cloud platform seamless to provide a better cost-performance solution

Support WDS mode
Support WDS mode under both fit/fat AP mode. Use 2.4GHz and 5GHz achieve a wireless bridging function

Flexible power input
WL8200-T3 can support a dedicated port for AC input in the side panel as well as standard PoE input.

Dual-mode fit & fat
WL8200-T3 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-T3
Dimensions (L*W*D) (mm)	278 × 222 × 98
Working Frequency	2.4G：802.11b/g/n 5G：802.11a/n/ac wave2 2.4G/5G：802.11a/b/g/n/ac
Maximum Data Rate	2.4G：400Mbps 5G：867Mbps 2.4/5G：200/433Mbps
Physical Port	1 * 10/100/1000Base-T PoE port for uplink 1 * 10/100/1000Base-T port for downlink, could connect external IoT module 1 * 1000M SFP fiber port
Power input	802.3at and 96 ~264V AC
Maximum power consumption	< 20W
Antenna	External antenna, provide 4 N-type female antenna interface
Working frequency band	802.11a/n: 5.150 GHz to 5.850 GHz 802.11b/g/n: 2.4 GHz to 2.483 GHz 802.11ac: 5.150GHz to 5.250GHz 5.250GHz to 5.350GHz 5.725GHz to 5.850GHz
Modulation technology	OFDM: BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM (11n) : MCS 0-15 MIMO-OFDM (11ac) : MCS 0-9 802.11b：BPSK，QPSK，CCK 802.11a/g/n:BPSK，QPSK，16-QAM，64-QAM

Transmit power	Maximum 27 dBm for all rate levels and modulation modes
Power adjustment granularity	1 dBm
Working/Storage temperature	-40°C to +65°C –45°C to +80°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP68

Software Specifications

Item	Feature	WL8200-T3
WLAN	**Product positioning**	Outdoor tri-band 11ac wave2 AP
	Working frequency band	2.4 GHz and 5 GHz
	Access bandwidth	1.7Gbps
	Virtual AP (BSSID)	48
	Current user	254
	Number of spatial streams	2.4GHz：2 5GHz：2 2.4/5GHz：1
	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
	Forcing terminals to roam based on signal strength	Yes
	Intelligent control of terminals based on airtime fairness	Yes
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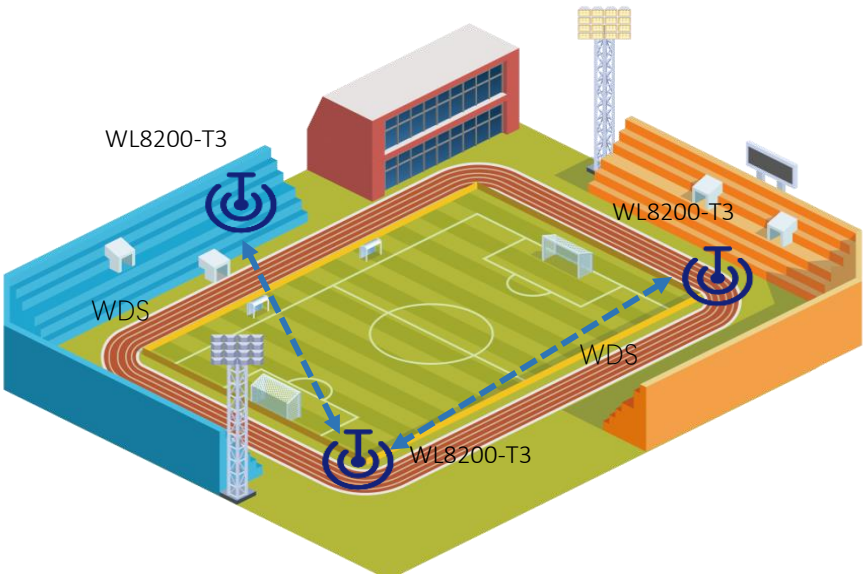
	High-density application optimization	Yes
11n enhancements	**40 MHz bundling**	Yes
	400Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Maximum likelihood demodulation (MLD)	Yes
	Transmit beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes

Item	Feature	WL8200-T3
	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
	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.
	WDS	Yes
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

Item	Feature	WL8200-T3
	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
	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



Stadium

- 802.11ac wave 2
- Fiber uplink port
- WDS for P2P & P2MP communication
- Most high IP68 standard
- Concurrent user 254
- External optional antenna

Order Information

Product	Description	Mark
WL8200-T3	802.11a/b/g/n/ac wave2 outdoor high performance AP (2.4GHz & 5GHz triple band and five spatial streams, external antenna, 1.7Gbps , support 802.3at PoE and 100~240V AC power)	Mandatory
ANT-2458-14DX60X4	Outdoor 2.4G & 5G dual-band directional antenna, support work in 2.4G and 5G band at the same time. Interface: 4x female N connector. 2.4G antenna gain 12dBi. 5G antenna gain 14dBi. H-plane: 60º, V-plane: 15º. Need one PJ-SZ04 mounting kit.	Optional
ANT-2458-5X4Y	Outdoor 2.4G & 5G dual-band Omnidirectional antenna, support work in 2.4G and 5G band at the same time. Interface: 4x female N connector. 2.4G antenna gains 5dBi. 5G antenna gains 8dBi. H-plane: 360º, 2.4G V-plane: 30º, 5G V-plane: 15º. Need one PJ-SZ04 mounting kit.	Optional
PJ-SZ04	Outdoor AP mount kit, including 4x 2~6GHz lightning arrestor, 4x 1-meter N-N jumper wire, 5x 1-meter ground wire, including insulating tape and PVC tape. Each antenna needs an additional mount kit	optional