WL8200-W2 11AC dual band wall-mounted wireless AP

Product overview

WL8200-W2 11AC dual band wall-mounted wireless AP is a new-generation 802.11ac based high-performance wireless access point (AP) newly launched by Yunke China Information Technology Limited (hereinafter referred to as DCN) for the hotel ,education, government, business and medical industry.

WL8200-W2 can be installed in a standard 86 panel, without the need for reconstruction of the wall, a small amount of construction, no noise; It don't destroy original decoration, it has beautiful appearance after installation. WL8200-W2 supports the 802.11AC standard, the highest available wireless bandwidth of 1167M, is 2 times of the traditional 802.11n standard AP. The WL8200-W2 adopted Atheros chip with high performance, strong load capacity.

WL8200-W2 product support Fat and Fit two kinds of work modes, according to the needs of the network planning. When WL 8200-W2 works as Fit AP, we need use DCN intelligent controller at the same time; When WL 8200-W2 works as Fat AP, it can be used independently. WL8200-W2 product support Fat/Fit two operating modes, it's useful for customers to upgrade their small WLAN network to the large network, so as to protect the user's investment.

Highlights

- ### Wired and wireless gigabit access

  The wireless AP integrated two gigabit wired uplink ports, can truly meet the bandwidth requirement of wireless clients and four gigabit downlink Ethernet ports.

  The integration of the 4 Gigabit downlink ports supports flexible VLAN configuration, the wired and wireless traffic can be

logically separated, it supports remote UP/DOWN operations at the same time and can avoid the illegal cable connection, and it also supports the unified configuration of cable outlet with the remote WEB visualization interface. Flexible configuration management approach can meet the diverse needs of customers' wired access.

- **High load capacity**

WL8200-W2 adopts Atheros chip of enterprises class, a more powerful CPU, while a lot of wall-mounted AP vendors use SOHO chip. Domestic AP products with SOHO chip are very inappropriate to be deployed in the enterprise, school and the hotel. Firstly, when the number of access users is up to 10, it is not stable, and it will require a restart, but WL8200-W2 has a strong load capacity with the use of enterprise class chips, can completely meet the needs of the school dormitory, Hotel wireless access.

- **Coverage —— Super sensitivity and intelligent velocity molding technology allow AP to cover through walls**

WL8200-W2 expands its coverage by improving receiving signal sensitivity, easily go through the thick walls. The wireless signal transmission is bidirectional; Increase of coverage must guarantee the normal reception of the weak signal. With built-in intelligence WL8200-W2 beam forming technology form the strongest signal in the direction of the mobile access terminal, enhance the strength of the signal of the mobile terminal. General domestic level SOHO AP simply increase the transmit power through illegal expansion of coverage, signal strength is inflated and the machine is hot when it works, can not guarantee the normal reception and transmission of weak terminal data. Setting cloth in traditional corridor will often result the weak signal in the toilet cover because of the indoor wall structure.

- **Gigabit transparent port——wired escape of AP fault and wired/wireless network physical isolation**

The wall-mounted AP will take the existing wired information ports of clients, wired and wireless access ports are integrated in a device. Customers are more concerned about whether the wired port can be used normally once the wireless AP has fault. WL8200-W2 can connect the Gigabit uplink ports through the lateral gigabit transparent ports (PASS THROUGH), although AP is down or power off, customers can still access the wired internet through the transparent port, easy to complete the escape of AP's fault through the wired port. In addition, with the use of the characteristics of the dual Gigabit uplink ports of WL8200-W2, combined with the transparent side Gigabit ports, you can design a wired / wireless network of physical isolation: wireless traffic go to uplink Gigabit WAN port, the wired traffic that needs to be isolated goes to transparent Gigabit port and uplink gigabit PASS THROUGH port.

The transparent Gigabit port also meets the needs of connections of the digital local telephone access to the internal telephone system, without additional deployment of digital phone lines.

- **High speed, excellent WIFI gigabit access**

WL8200-W2 supports the new 802.11AC standard, wireless bandwidth get to gigabit easily, it's 2 times of the traditional 802.11n AP wireless bandwidth, provides comparable Gigabit wired wireless experience for users. Combined wired port intelligent configuration and perfect authentication, WL8200-W2 id an ideal choice for high-speed Internet access and indoor equipment connection.

- **Three in one access**

WL8200-W2 really realize the high speed WIFI network, Gigabit wired network and digital telephone three in one access, can provide WI-FI access, wired Ethernet access and telephone access for various equipment and applications.

- **Easy to deploy and configure —— rapid installation, fire alarm**

The deployment of the covering and antenna burglary coverage in the corridor need to punch the holes, especially for the antenna, there is much construction noise, the hotel, medical and school cherish an undying. WL8200-W2 panel supports 86 boxes standard, can perfectly fit plug-in installed to any standard network information panel, it has beautiful appearance, does not destroy the existing environment. With the use of the existing cable POE power supply, it can reduce the wiring. The installation has low cost, no noise, short project period (the time to install an AP is less than 3 minutes), it does not affect the normal office, business and customer service. In addition，AP use flame retardant materials, lateral standard anti-theft screw, the clients can use it easily in the room.

Product Specifications

Hardware Specifications

Item	WL8200-W2
Dimensions (mm)	86 ×86 ×125
Back panel port	Two **1000M** Ethernet ports
Front panel port	Four **10/1000M ports**，one **1000M** passthrough ports
The anti-theft screw	Lateral direction support an anti-theft screw, AP indoor coverage is safe and secure

PoE	802.3af /802.3at
Local	Support 48V DC local power supply
Transmitting power	17dBm
Maximum power consumption	< 6W
Antenna	3dBi antenna
Working temperature	-5℃～50℃
Working temperature	15% ～95% no condensing

Software Specifications

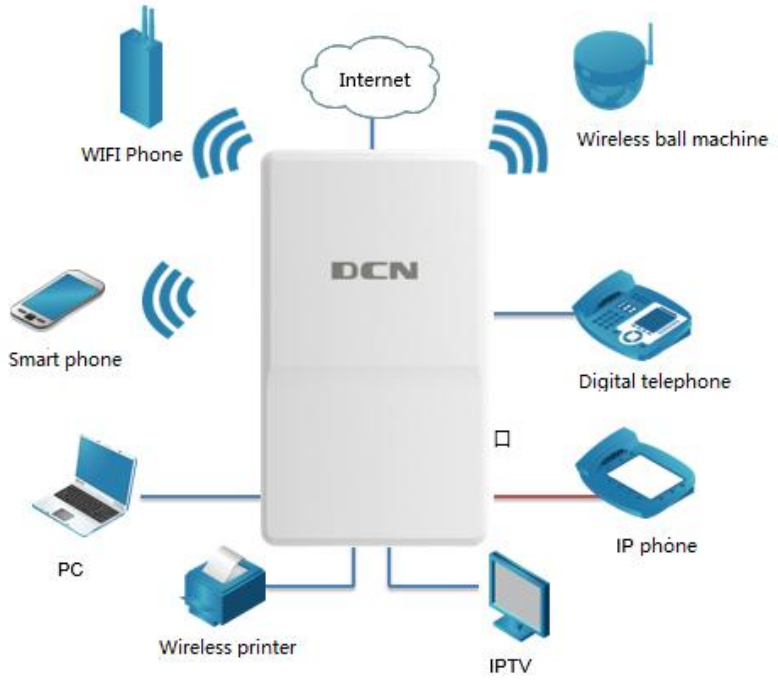
Item	Feature	WL8200-W2
WLAN	**Product positioning**	Indoor wireless wall AP
	Working frequency band	2.4GHz and 5.8GHz
	Virtual AP (BSSID)	32
	Number of spatial streams	2
	Dynamic channel adjustment (DCA)	YES
	Transmit power control (TPC)	YES
	Blind area detection and repair	YES
	SSID hiding	YES
	RTS/CTS	YES
	RF environment scanning	YES
	Hybrid access	YES
	Restriction on the number of access users	YES
	Link integrity check	YES
	Prohibiting the access of terminals with weak	YES

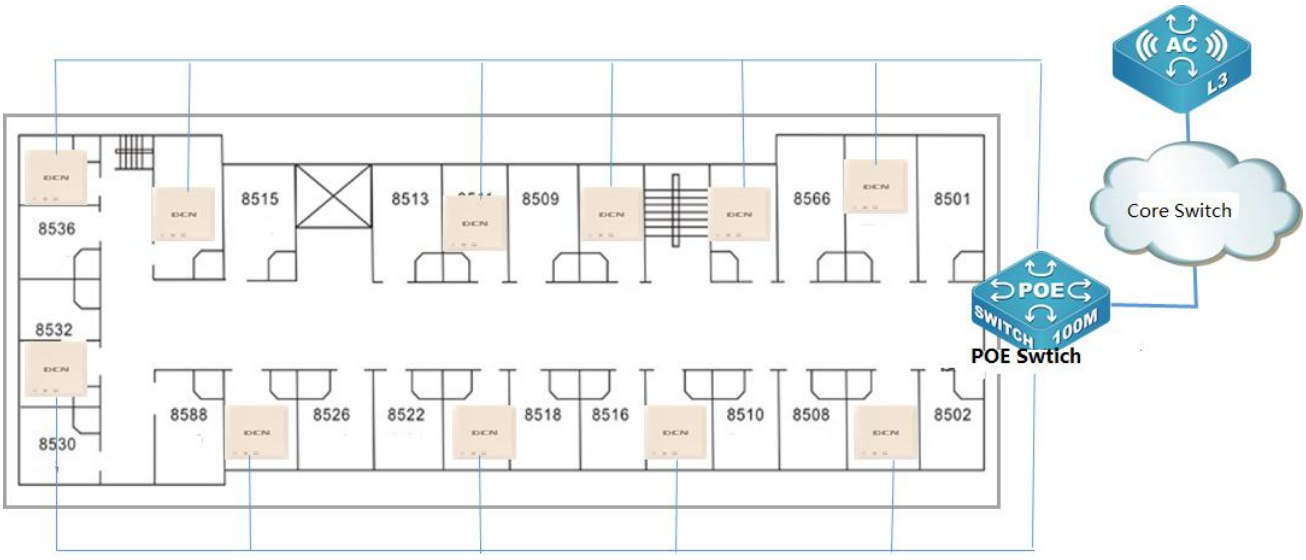
Item	Feature	WL8200-W2
	signals	
	Forced roaming of terminals with weak signals	YES
	Intelligent control of terminals based on airtime fairness	YES
11n enhancements	**40 MHz bundling**	YES
	300 Mbps (PHY)	YES
	Frame aggregation (A-MPDU)	YES
	Maximum likelihood demodulation (MLD)	YES
	Transmit beam forming (TxBF)	YES
	Maximum ratio combining (MRC)	YES
	Space-time block coding (STBC)	YES
	Low-density parity-check code (LDPC)	YES
11AC	**802.11AC protocol**	YES
Cable	**Wired port VLAN configuration**	YES，each wired port can be configured VLAN
	AC remote configuration	YES，including CLI and WEB modes
Security	**Encryption**	YES 64/128WEP、TKIP、CCMP encryption
	802.11i	YES
	WAPI	YES
	MAC address authentication	YES
	LDAP authentication	YES
	PEAP authentication	YES
	WIDS/WIPS	YES
	Real-time spectrum protection	YES
	Protection against DoS attacks	Anti-DoS for wireless management packets
	Forwarding security	Frame filtering, white list, static blacklist, and dynamic

Item	Feature	WL8200-W2
		blacklist
	User isolation	AP L2 forwarding suppression Isolation between virtual APs (multiple SSIDs)
	Periodic SSID enabling and disabling	YES
	Access control of free resources	YES
	Secure admission control of wireless terminals	Secure admission control of wireless terminals based on DCSM
	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
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	Fast roaming across APs Fast roaming across ACs
	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

Item	Feature	WL8200-W2
	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
	Power saving mode	YES
	Automatic emergency mechanism of APs	YES
	Intelligent identification of terminals	YES
	Wireless network VAS	Abundant wireless network VASs; applications based on smart terminals; advertisement push based on site locations; personalized push of the portal
	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

Typical application





Product ordering information

Product model	Product description	Remarks
WL8200-W2	802.11AC dual band wireless indoor wall-mounted AP (support 2.4GHz &5.8GHz, the maximum bandwidth 1167Mbps, the built-in antenna; support 4 Gigabit wired ports; support Gigabit Passthrough , wired port; support dual gigabit uplink , support 802.3af, support PoE remote power supply and the local direct current power supply) (the accessories have no local power adapter and POE power supply module)	Mandatory