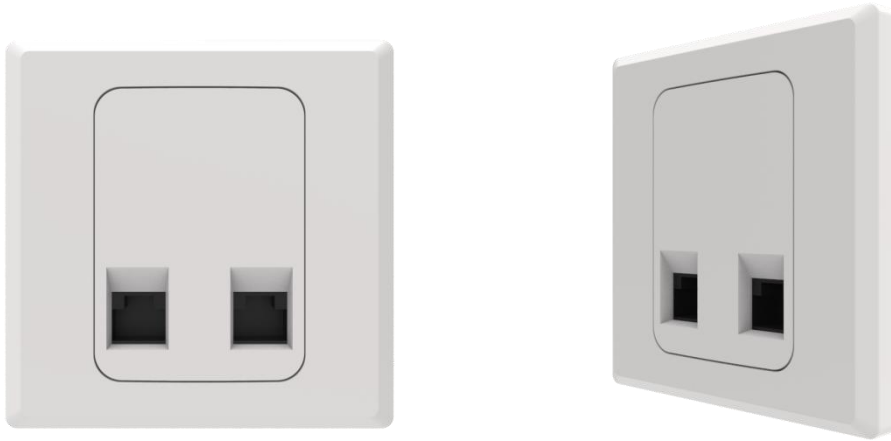![DCN logo - Powered by Switch and Security]

WL8200-WL2 wall-mounted wireless AP

Product Overview

The WL8200-WL2 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 and enterprise industry.

WL8200-WL2 can be installed in a standard 86 panel and its thickness is only 22mm, 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-WL2 supports the 802.11AC standard, 2.4G band could provide 300M bandwidth and 5G band could provide 433M bandwidth, so the highest available wireless bandwidth of 733M.

WL8200-WL2 provide one 100M uplink Ethernet port and two downlink 100M Ethernet ports, the uplink port could support 802.3af POE, so Wl8200-WL2 not only could provide high performance WIFI coverage, but also could provide extra wired connection.

Highlights

- **Easy to deploy - Quick installation**

  WL8200-WL2 could be installed in a standard 86 panel, could be installed quickly with just fixing two screws, so install one AP just need less than 5 minutes. WL8200-WL2 can be installed in a standard 86 panel and its thickness is only 22mm, 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.

- **High load capacity - SOHO chip**

WL8200-WL2 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-WL2 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-WL2 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-WL2 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。

- **High performance, excellent WIFI access - 733Mbps**

  WL8200-WL2 is DCN's fourth generation AP, it is used for student dormitory and hotel, it improves the performance from 300Mbps to 733Mbps. It is the first 733Mbps in-wall AP in the industry. WL8200-WL2 is an ideal choice for high-speed Internet access and in-wall equipment connection.

Product specifications

Hardware specifications

Item	WL8200-WL2
Dimension (mm)	86×86×22
Ethernet ports	1 X 10/100Base-T uplink port, 2 X 10/100Base-T downlink ports
PoE power	802.3af/802.3at

Maximum power consumption	< 6W
Antenna gain	4dBi
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	802.11b : BPSK , QPSK , CCK 802.11a/g/n:BPSK , QPSK , 16-QAM , 64-QAM 802.11ac : BPSK , QPSK , 16-QAM , 64-QAM , 256-QAM
Transmitting power	17dBm
Power adjustment granularity	1dBm
Working/Storage temperature	0°C ~ 50°C/-40°C ~ 70°C
Working/Storage RH	5% ~ 95% no condensing

Software specifications

Item	Feature	WL8200-WL2
WLAN	**Product positioning**	In-wall dual band AP
	Working frequency band	2.4GHz and 5GHz
	Virtual AP (BSSID)	32
	Number of spatial streams	2.4 : 2 5G : 1
	Dynamic channel adjustment (DCA)	YES

Item	Feature	WL8200-WL2
	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 signals	YES
	Forced roaming of terminals with weak signals	YES
	Intelligent control of terminals based on airtime fairness	YES
802.11ac enhancement	Number of spatial streams	1
	Working frequency band	5GHz
	80 MHz bundling	YES
	433Mbps (PHY)	YES
	Frame aggregation (A-MPDU)	YES
	Frame aggregation (A-MSDU)	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

Item	Feature	WL8200-WL2
8011n enhancement	**Number of spatial streams**	2
	Working frequency band	2.4GHz
	40 MHz bundling	YES
	300 Mbps (PHY)	YES
	Frame aggregation (A-MPDU)	YES
	Frame aggregation (A-MSDU)	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
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 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

Item	Feature	WL8200-WL2
	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
	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

Item	Feature	WL8200-WL2
		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
	WMM	YES
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
	Network management	Centralized management through an AC; both fit and fat modes

Product ordering information

Product model	Product description	Remarks
WL8200-WL2	802.11AC dual band wireless indoor wall-mounted AP (support 2.4GHz &5.8GHz, the maximum bandwidth 733Mbps, the built-in antenna; support 1X 100M uplink port, 2 X	Mandatory

| | 100M downlink ports, support 802.3af, support PoE remote power supply) (the accessories have no POE power supply module) | |