

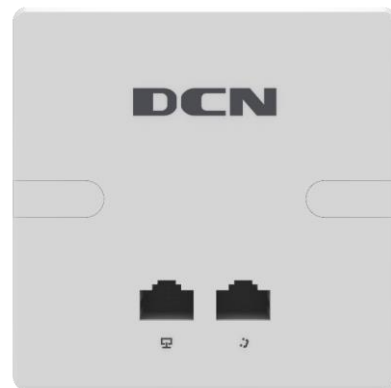
EAP220

Smart 802.11ac Dual Band In-wall Wireless AP

Product Overview

EAP220 can be installed in a standard x86 panel, without wall reconstruction to save cost and time, and protect the original decoration. EAP220 supports the 802.11AC standard 2.4G and 5G band, and supports the highest available wireless bandwidth of 733Mbps.

EAP220 provides one 100M uplink Ethernet port, one downlink 100M Ethernet port and one RJ11 telephone port. The uplink port could support 802.3af POE, so EAP220 not only could provide high performance WIFI coverage, but also could provide extra wired connection and telephone connection.



802.11a/b/g/n/ac



733Mbps



concurrent user 30



Standard size



cloud management



RJ11 and downlink Port

Key Features and Highlights

Easy to deploy - Quick installation

EAP220 could be installed in a standard x86 panel, could be installed quickly with just fixing two screws, so installing one AP just need less than 5 minutes.

High load capacity - SOHO chip

EAP180 adopts the Atheros chip of enterprise-class, a more powerful CPU that can completely meet the needs of the school dormitory, Hotel wireless access.

High performance, excellent WIFI access - 733Mbps

EAP220 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. EAP220 is an

ideal choice for high-speed Internet access and in-wall equipment connection.

Flexible wired connection

EAP220 can provide 100M downlink ports which allow the customer to do wired connection and provide more stable connections. Besides that, it also offers an RJ11 telephone port to help customers to reduce the cost.

Dual-mode fit & fat

EAP220 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	EAP220
Dimension (L*W*D) (mm)	86 × 86 × 34
Ethernet ports	1 * 10/100Base-T uplink port, 1 * 10/100Base-T downlink port, and 1 * RJ11 telephone port
PoE power	802.3af
Maximum power consumption	< 6W
Antenna gain	2dBi
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	EAP220
WLAN	Product positioning	In-wall dual-band AP
	Working frequency band	2.4GHz and 5GHz
	Bandwidth performance	733Mbps
	Virtual AP (BSSID)	16
	Concurrent user	30
	Number of spatial streams	2.4: 2 5G: 1

Item	Feature	EAP220
	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 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 beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes
	Space-time block coding (STBC)	Yes
	Low-density parity-check code (LDPC)	Yes
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 beamforming (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

Item	Feature	EAP220
	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
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
	Power saving mode	Yes
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes

Item	Feature	EAP220
	Wireless network VAS	Abundant wireless network VASs; applications based on smart terminals; advertisement push-based on-site locations; the 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

Typical Application



Hotel

- 802.11a/b/g/n/ac
- 3 space stream, 733Mbps
- 802.3af PoE
- X86 standard, easy installation

Order Information

Product	Description
EAP220	DCN SMB In-wall Dual-Band Wireless AP, 802.n+802.11ac (Standard X86 type, 2.4GHz, and 5GHz dual-band, 2*2 for 2.4G and 1*1 for 5G. Max. 733Mbps. internal antenna, support one 10/100M Base-T port for uplink, one 10/100M Base-T port for downlink, one RJ11 telephone port, support 802.3af POE power in. (default with no POE module)), could only be managed by DCN EAC series controller