

CAP-DF61

802.11ax Indoor Dual Band Cloud AP

Product Overview

CAP-DF61 is a dual band high-performance gigabit wireless access point based on 802.11ax standard launched by DCN. It works in 2.4GHz and 5GHz frequency bands and adopts MU-MIMO, OFDMA, TWT and other advanced wireless technologies. The total maximum access rate is 1775Mbps(2.4GHz 575Mbps, 5GHz 1200Mbps).

CAP-DF61 adopts built-in antenna, provides 1*GT uplink which support PoE and 1*GT downlink, supports wall-mounting, desktop, ceiling and other installation methods



802.11a/b/g/n/ac/ax



concurrent 128



1775Mbps, 2*2 MIMO



Standard PoE input



cloud management



downlink Port

Key Features and Highlights

- Support 802.11ax
- High throughput (Max 1775Mbps data rate)
- Integrated wireless security, guest access
- User authentication and isolation
- Management without hardware controller
- Suitable for SMB and chain enterprise
- With downlink port for some wired devices

Product Specifications

Item	CAP-DF61
Dimensions (L*W*D) (mm)	180 x 180 x 28.5
Weight	0.58kg
Ethernet ports	1*10/100/1000Base-T port PoE for uplink 1*10/100/1000Base-T for downlink
LED indicators	Yes
Console port (RJ-45)	Yes
Power supply	802.3at PoE, or External power adapter (Input: 100 ~ 240V AC , Output: 12V DC)
Maximum power consumption	<13W
RF port	Built-in omnidirectional antenna, 2.4 GHz 4 dBi, 5 GHz 5 dBi
Transmit power	2.4G:20dBm (Per Chain) 5G:20dBm (Per Chain) (Note:final output power comply with deployment regulation might be different)
Power adjustment granularity	1 dBm
Working frequency band	802.11b/g/n/ax : 2.4GHz-2.483GHz 802.11a/n/ac/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
Working/Storage temperature	-10°C to +65°C -40°C to +70°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP41
Installation environment	Indoor: Desktop/ Ceiling/ T keel/ Wall mounting
Wi-Fi standard	802.11 a/b/g/n/ac/ax
BSSID	4 BSSID per radio

Software Specifications

Item	Feature	WL8200-X1
WLAN	Product positioning	Indoor dual-frequency
	Working frequency band	2.4GHz and 5GHz
	Bandwidth performance	1775Mbps
	Virtual AP (BSSID)	8 (4 for each radio)
	Concurrent user	254
	Number of spatial streams	2.4GHz:2, 5GHz:2
	Dynamic channel adjustment (DCA)	Yes
	SSID hiding	Yes
	RTS/CTS	Yes
	RF environment scanning	Yes
	Link integrity check	Yes
	Restriction on the number of access users	Yes
	Accessing control of terminals based on signal strength	Yes
	Forcing terminals to roam based on signal strength	Yes
	Intelligent control of terminals based on air-time fairness	Yes
	High-density application optimization	Yes
802.11ax enhancements	Space streams	2.4GHz:2, 5GHz:2
	Frequency band	2.4GHz + 5GHz
	80 MHz bundling	Yes
	1200Mbps (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	64/128 WEP, TKIP, and CCMP encryption
	802.11i	Yes
	Portal authentication	Yes
	MAC address authentication	Yes
	LDAP authentication	Yes
	PEAP authentication	Yes(need to work with DCN specific authentication server)
	User isolation	L2 forwarding isolation based on clients or SSIDs
	Periodic SSID enabling and disabling	Yes
	Access control of free resources	Yes
	ACL	Access control of various data packets such as MAC, IPv4, and IPv6 packets
	SSID bind with VLAN	Yes
	802.11W	Yes, encryption of management frames

Item	Feature	WL8200-X1
Forwarding	IP address setting	Static IP address configuration or dynamic DHCP address allocation
	IPv6 forwarding	Yes
	IPv6 portal	Yes
	Local forwarding	Yes, based on SSID and VLAN
	Multicast	IGMP snooping
	Roaming	Yes
	AP switching reference	Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc.
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
	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
	BYOD	Yes
Management	Network management	Support ImCloud management, don't support local hardware AC management
	Maintenance mode	Both local and remote maintenance
	Log function	Local logs, Syslog, and log file export
	Alarm	Yes
	Fault detection	Yes
	Statistics	Yes
	Watchdog	Yes
Value-added service	Value-added marketing	Support: various APPs based on intelligent terminals, advertising based on location, personalized portal web page
	Value-added authentication	WeChat, SMS, QR code
	Passenger flow analysis	Yes

Typical Application

DCN cloud-based new generation AP, designed for hotel, meeting room, restaurant and office application



Hotel



Meeting Room



Office



Restaurant

Order Information

Product	Description
CAP-DF61	DCN cloud-based indoor AP, build-in antenna, maximum rate 1775Mbps, 802.11a/b/g/n/ac/ax (2.4GHz & 5GHz dual mode, 2*2), 1*10/100/1000Base-T with 802.3 af/at PoE, 1*10/100/1000Base-T downlink port, managed by DCN cloud platform, support DC 12V power supply
DCWL-PoEINJ-G+	10/100/1000Base-T single port 802.3at PoE module
WA-24E12R0-BAE	Local power adapter (input: 100~240V AC, 50/60Hz, 0.55A; output: 12V DC, 2A)