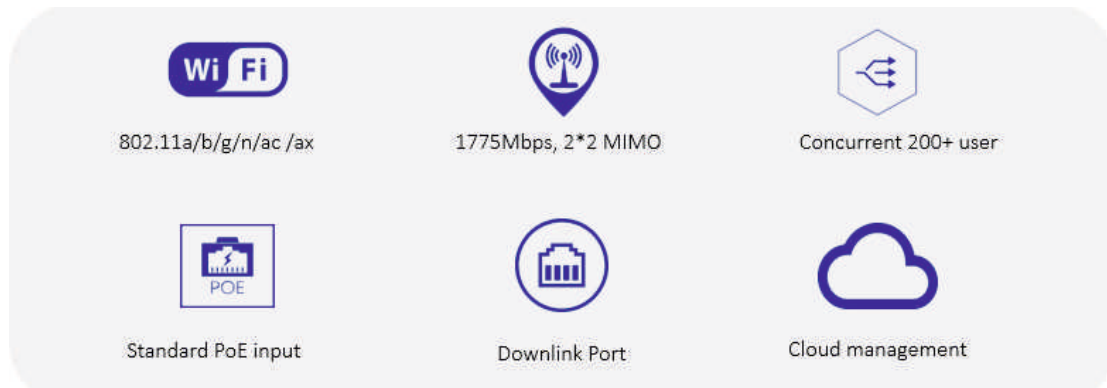# Indoor 802.11ax Wi-Fi 6 wireless access point

AIR-AP605C-X1

- Enterprise-class indoor 802.11ax Wi-Fi 6 wireless access point.
- Wireless user management at a fine granularity.
- Flexible installation.
- Downlink Port.
- Good PoE compatibility.
- Dual-mode fit & fat.

Model No. AIR-AP605C-X1   Indoor 802.11ax Wi-Fi 6 wireless access point

OVERVIEW

AIR-AP605C-X1 is a dual-band high-performance gigabit wireless access point device based on the 802.11ax standard launched by AIRPRO, it could offer maximum 1775Mbps access rate. AIR-AP605C-X1 works in the 2.4GHz and 5GHz frequency bands and supports advanced wireless technologies such as MU-MIMO, OFDMA, spatial multiplexing, and TWT. The first radio of AIR-AP605C-X1 works in the 2.4GHz frequency band and can provide a maximum access rate of 575Mbps; the second radio works in the 5GHz frequency band and can provide a maximum access rate of up to 1200Mbps.

KEY FEATURES & HIGHLIGHTS

Enterprise-class indoor 802.11ax Wi-Fi 6 wireless access point:-

AIR-AP605C-X1 supports the 802.11ax standard, operates in both 2.4 GHz and 5 GHz band, and provides an access bandwidth up to 1775 Mbps. This model is the best choice for Entry-level office or company as it can support concurrent users up to 254.

Wireless user management at a fine granularity:-

AIR-AP605C-X1 can support a maximum of 8 WLANs to implement multi-layer multi-service management of wireless users at a fine granularity. Each WLAN supports access control and uplink/downlink rate limit based on MAC or IP addresses. These WLANs may be bound to virtual local area networks (VLANs).

Flexible installation:-

AIR-AP605C-X1 supports wall mounting, ceiling mounting, T-keel mounting, you can deploy it almost everywhere that you want.

Downlink Port:-

AIR-AP605C-X1 provides 1 downlink port for the accessing of wired devices, which improves the flexibility of networking deployment.

Good PoE compatibility:-

AIR-AP605C-X1 can work well with all PoE switch (cisco, HUAWEI, juniper,AirPro etc.) which support 802.3af & at standard, this allows to power up AIR-AP605C-X1 directly, a power adapter is not required anymore.

Dual-mode fit & fat:-

AIR-AP605C-X1 can work in fit or fat mode and can flexibly switch between the fit mode and the fat mode according to network planning requirements.

TECHNICAL SPECIFICATIONS

Hardware Item	AIR-AP605C-X1
Dimensions (L*W*D) (mm)	180 x 180 x 28.5
Uplink-port	1* 10/100 /1000Base-T (PoE)
Downlink port	1* 10/100 /1000Base-T
Console port (RJ-45)	1
Power supply	802.3 at PoE and External power adapter (Input: 100 ~ 240V AC, Output: 12 V DC)
LED indicators	Power, 2.4G, 5G
Maximum power consumption	<13W
Antenna gain	Built-in 2.4 GHz 5 dBi antenna and 5 GHz 5 dBi antenna
Working frequency band	802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11ax: 5.150GHz to 5.350GHz 5.47GHz to 5.725GHz 5.725GHz to 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
Transmit power	2.4G: 23dBm 5G : 22dBm (Note: final output power comply with deployment regulation and might be different)
Power adjustment granularity	1 dBm
Working/Storage temperature	−10°C to +55°C −40°C to +70°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP41

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TECHNICAL SPECIFICATIONS

Software Item	AIR-AP605C-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
	Hybrid access	Yes
	Restriction on the number of access users	Yes
	Link integrity check	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 airtime 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
	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
	ACL	Access control of various data packets such as MAC, IPv4, and IPv6 packets

TECHNICAL SPECIFICATIONS

Software Item	AIR-AP605C-X1	
	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.
QoS	WMM	Yes
	Priority mapping	Ethernet port 802.1P identification & marking Mapping from wireless priorities to wired
	QoS policy mapping	priorities 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	Band width 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
	Multicast enhancement	Multicast to unicast

TECHNICAL SPECIFICATIONS

Software Item	AIR-AP605C-X1	
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.
Value added service	Watchdog	Yes
	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

ORDER INFORMATION

Product	Description
AIR-AP605C-X1	AIRPRO Indoor Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported (2.4GHz:2*2, 5GHz 2*2), max 1775Mbps access rate, fat & fit, 802.3 at, managed by AIRPRO hardware controller & cloud platform

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TYPICAL APPLICATION

AIR-AP605C-X1 is ideal AP for indoor Wi-Fi coverage, with zero touch provisioning, advanced RF control and cost-effective design, it could offer best indoor Wi-Fi experience for customers.

Class room

Small Meeting Room

Office

AIR-AP605C-X1

Hospital

- 802.11ax, Wi-Fi 6
- Access bandwidth 1775Mbps
- 802.3at PoE
- Downlink port
- Concurrent user 254

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