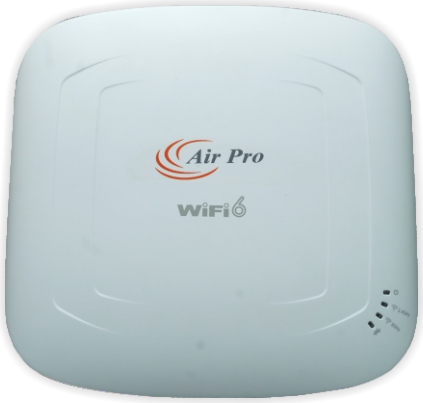
DATASHEET
AIR-AP610C-AX

Wi-Fi 6 Dual Band Enterprise AP

Air Pro®
Simple | Secure | Trusted

PRODUCT OVERVIEW

AIR-AP610C-AX is a dual-band high-performance gigabit wireless access point based on the 802.11ax standard. supports standard 86 panel for easy installation and offers upto 2975Mbps access rate. It works in 2.4GHz and 5GHz frequency bands and supports advanced wireless technologies such as MU-MIMO, OFDMA, spatial multiplexing and TWT. The first radio works in the 2.4GHz frequency band and can provide access rate of upto 575Mbps; the second radio works in the 5GHz frequency band and can provide access rate of upto 2400Mbps.



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

2975Mbps, 4*4 MIMO

300+ concurrent users

PoE
Standard PoE Input

x86
Standard Size

Cloud Management

Anti-theft

KEY FEATURES AND HIGHLIGHTS

Enterprise-class indoor 802.11ax Wi-Fi 6 wireless access point:-
AIR-AP610C-AX supports the 802.11ax standard, operates in both 2.4 GHz and 5 GHz band, and provides an access bandwidth up to 2975 Mbps. This model is the best choice for Entry-level office or company as it can support concurrent users up to 300+.

Wireless user management at a fine granularity:-
AIR-AP610C-AX can support a maximum of 32 WLANs to implement multi-layer multi-servicemanagement of wireless users at a fine granularity. Each WLAN supports access control and uplink/downlink rate limit based on MAC or IPaddresses. These WLANs may be bound to virtual local area networks (VLANs).

Flexible installation:-
AIR-AP610C-AX supports wall mounting, ceiling mounting, T-keel mounting, you can deploy it almost everywhere that you want.

Anti-thief:-
AIR-AP610C-AX can work with Kensington technology to protect the investment of customers, which is very important to the specific customer.

Good PoE compatibility:-
AIR-AP610C-AX can work well with all PoE switch(cisco, HUAWEI, juniper, etc.) which support 802.3af & at standard, this allows to power up AIR-AP610C-AX directly, a power adapter is not required anymore.

Dual-mode fit & fat:-
AIR-AP610C-AX 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	AIR-AP610C-AX	
Dimensions(L*W*D) (mm)	201 x 195 x 41	
Physical Port	2 x 10/100/1000/2500Mbps ethernet ports, 1 x BLE module	
Console port (RJ-45)	1	
USB 2.0	2	
Power supply	802.3af & at and External power adapter (Input: 100～240V AC, Output: 12 VDC)	
Maximum power consumption	<12W	
RF port	Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 dBi antenna	
Working frequency band	802.11b/g/n/ax: 2.4GHz-2.483GHz 802.11a/n/ac/ax : 5.725~5.850GHz ; 5.150~5.350GHz; 5.47~5.72GHz	
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 : 23dBm (Note : final output power comply with deployment regulation 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	
WLAN	Product positioning	Indoor dual-frequency
	Working frequency band	2.4GHz and 5GHz
	Bandwidth performance	2975Mbps
	Virtual AP (BSSID)	32
	Concurrent user	300+
	Number of spatial streams	2.4GHz:2, 5GHz:4
	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
	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	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

PRODUCT SPECIFICATIONS
Hardware Specifications

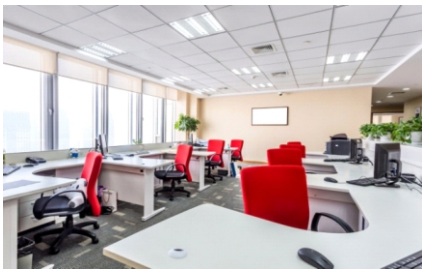
Security	*Encryption*	*64/128 WEP, TKIP, and CCMP encryption*
	802.11i	*Yes*
	Portal authentication	*Yes*
	WAPI	*Yes*
	MAC address authentication	*Yes*
	LDAP authentication	*Yes*
	PEAP authentication	*Yes*
	WIDS/WIPS	*Yes*
	Protection against DoS attacks	*Anti-DoS for wireless management packets*
	Forwarding 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*
	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.*
	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*
	Call admission control (CAC)	*CAC based on the number of users*
	Power saving mode	*Yes*
	Automatic emergency mechanism of APs	*Yes*
	Intelligent identification of terminals	*Yes*
	Multicast enhancement	*Multicast to unicast*
	BYOD	*Identification of terminals*
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*
	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*

TYPICAL APPLICATION
Hardware Specifications

AIR-AP610C-AX 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

Medium sized Meeting Room



Office

Hospital

- 802.11ax, Wi-Fi 6
- Access bandwidth 2975Mbps
- 802.3at PoE
- Anti-theft
- Concurrent users 300+

ORDER INFORMATION

Product	***Description***
AIR-AP610C-AX	*AirPro Indoor Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported (2.4GHz:2*2, 5GHz 4*4), upto 2975Mbps access rate, fat/fit/bridge, 802.3 af & at, default no power adapter , managed by AirPro hardware controller & cloud platform*

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