DATASHEET
AIR-AP605C-X1-R2

Simple | Secure | Trusted

3000Mbps Wi-Fi 6 Ceiling Mount AP

PRODUCT OVERVIEW

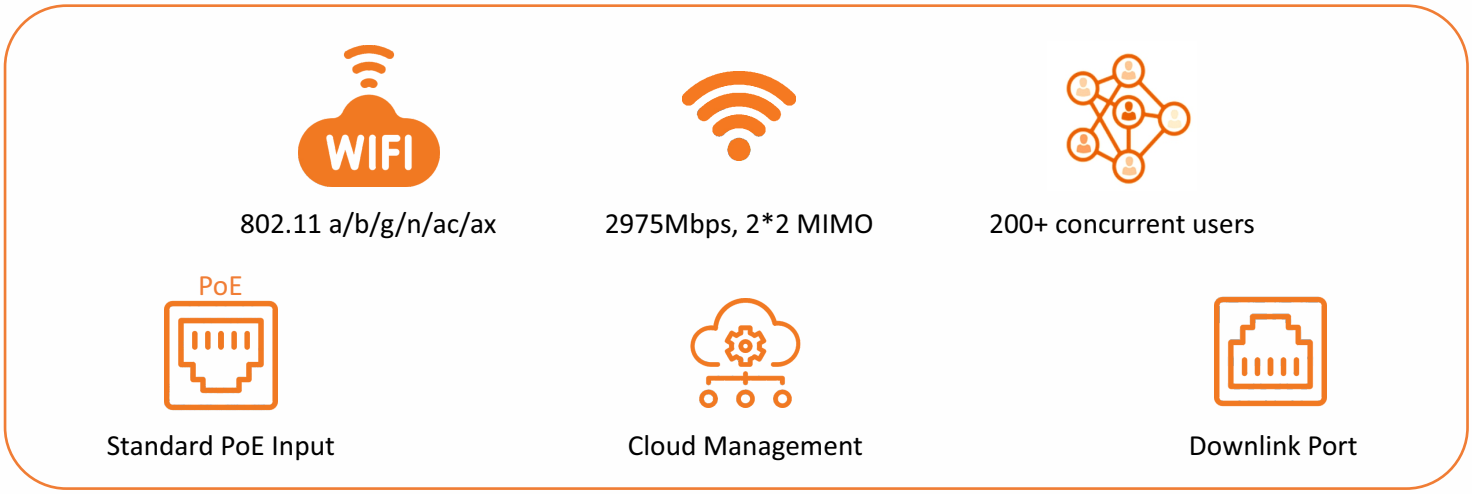
AirPro AIR-AP605C-X1-R2 is a dual-band, high-performance Gigabit wireless access point based on the 802.11ax standard. It delivers a maximum access rate of 2975 Mbps, operating across both 2.4 GHz and 5 GHz frequency bands.



Key technologies include MU-MIMO, OFDMA, spatial multiplexing, and Target Wake Time (TWT), enabling efficient multi-user connectivity and optimized power management.

- Radio 1 (2.4 GHz): Up to 575 Mbps maximum access rate
- Radio 2 (5 Ghz): Up to 2400 Mbps maximum access rate

With its robust performance and advanced wireless features, the AirPro AIR-AP605C-X1-R2 is ideal for environments requiring reliable, high-speed connectivity.



KEY FEATURES AND HIGHLIGHTS

Enterprise-Class Indoor 802.11ax Wi-Fi 6 Wireless Access Point:-
The AIR-AP605C-X1-R2 supports the 802.11ax standard, operating in both the 2.4 GHz and 5 GHz bands. It offers an impressive total throughput of up to 2975 Mbps and can accommodate up to 254 concurrent users—making it an ideal choice for entry-level offices and growing businesses.

Wireless User Management with Fine Granularity:-
The AIR-AP605C-X1-R2 supports up to 16 WLANs, enabling multi-layer, multi-service management of wireless users with fine granularity. Each WLAN can apply access control and uplink/downlink rate limits based on MAC or IP addresses. These WLANs can also be mapped to Virtual Local Area Networks (VLANs), enhancing network segmentation and security.

Flexible installation:-
AIR-AP605C-X1-R2 supports wall mounting, ceiling mounting, T-keel mounting, you can deploy it almost everywhere that you want.

Downlink Port:-
AIR-AP605C-X1-R2 provides 1 downlink port for the accessing of wired devices, which improves the flexibility of networking deployment.

PoE compatibility:-
AIR-AP605C-X1-R2 can work well with all PoE switch (cisco, HUAWEI, juniper, etc.) which support 802.3af & at standard, this allows to power up AIR-AP605C-X1-R2 directly, a power adapter is not required anymore.

Multi-mode: fit, fat, bridge, nat:-
AIR-AP605C-X1-R2 can work in fit, fat or bridge mode and can flexibly switch between these three modes according to network planning requirements.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AIR-AP605C-X1-R2	
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	
Power supply	802.3 at PoE and External power adapter (Input: 100~240V AC , Output: 12 V/2A DC)	
LED indicators	Power, 2.4G, 5G	
Maximum power consumption	<13W	
Antenna gain	Built-in 2.4 GHz 5dBi antenna and 5GHz 4dBi antenna	
Working frequency band	802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11a/n/ac/ac wave 2/ax: 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: 22dBm 5G : 22dBm	
Power adjustment granularity	1 dBm	
Working/Storage	–10°C to +55°C	
temperature	–40°C to +70°C	
Working/Storage RH	5% to 95% (non-condensing)	
Protection level	IP41	
WLAN	Product	Indoor dual-frequency
	Working frequency band	2.4GHz and 5GHz
	Bandwidth performance	2975Mbps
	Virtual AP (BSSID)	16 (8 for each radio)
	Concurrent user	254
	Number of spatial streams	2.4GHz:2, 5GHz:2
	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 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

PRODUCT SPECIFICATIONS

Hardware Specifications

Security	Encryption	64/128 WEP, TKIP, and CCMP,WPA2/WPA3 Enterprise
	802.11i, 802.11r/k/v, WIDS/WIPS, Dynamic PSK (optional)	Yes
	Portal authentication/ Hotspot2.0 /Passpoint support	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
	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.
	WMM	Yes
QoS	Priority mapping	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities
	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	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
	Multicast enhancement	Multicast to unicast
Management	Network management	Centralized management through an AC; both fit and fat modes
	Mesh Networking	Through central AP to manage the RE AP
	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, fit and bridge 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 or bridge mode through a local control port or Telnet(web) An AP working in bridge mode can switch to the fit or fat mode through a local control port or Telnet(web)
	Watchdog	Yes
Value added service	Value added marketing	Support: various apps based on intelligent terminals, advertising push based on location, personalized push of portals
	Value added authentication	SMS, QR code

ORDER INFORMATION

Product	Description
AIR-AP605C-X1-R2	AirPro Indoor Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported(2.4GHz:2*2, 5GHz 2*2), max 2975Mbps access rate, fat/fit/bridge, 802.3 at, managed by AirPro hardware controller & cloud platform

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