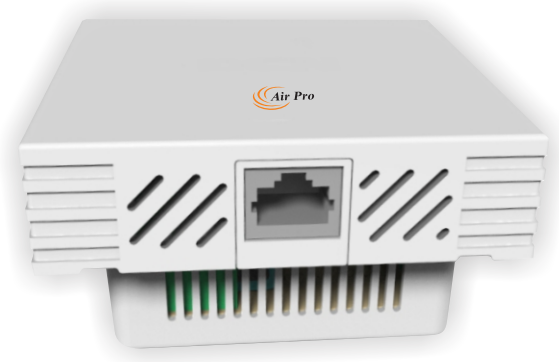
DATASHEET
AIR-WAP602-X1

Wi-Fi 6 Dual Band Enterprise AP

Air Pro®
Simple | Secure | Trusted

PRODUCT OVERVIEW

AIR-WAP602-X1 is a dual-band high-performance in-wall gigabit wireless access point based on the 802.11ax standard. supports standard 86 panel for easy installation and offers upto 1775Mbps 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 1200Mbps.



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

1775Mbps, 2*2 MIMO

Upto 100 concurrent users

PoE
Standard PoE Input

x86
Standard Size

Cloud Management

Downlink Port

KEY FEATURES AND HIGHLIGHTS

802.11ax Wi-Fi 6 wireless in-wall access point:-
AIR-WAP602-X1 supports the 802.11ax standard, operates in both 2.4 GHz and 5 GHz band, and provides an access rate upto 1775 Mbps. This model is a high-end in-wall access point for hotel, education, government and business networks.

Wired and wireless gigabit access:-
AIR-WAP602-X1 integrated gigabit wired uplink port can truly meet the bandwidth requirement of wireless clients.

Easy to deploy x86 standard panel:-
AIR-WAP602-X1 panel supports 86 box standard, and can perfectly be installed on any standard panel. With the use of the PoE cable, the whole installation is low cost, silent and quick (the time to install an AP is less than 3 minutes).

Downlink Port:-
AIR-WAP602-X1 provides one gigabit downlink port for the accessing of wired devices, which improves the flexibility of networking deployment.

Good PoE compatibility:-
AIR-WAP602-X1 can work well with all PoE switches (viz. Cisco, HUAWEI, Juniper, etc.) which support 802.3af/at standard. This allows AIR-WAP602-X1 to power up directly without any power adapter.

Multi-mode: fit, fat, bridge:-
AIR-WAP602-X1 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-WAP602-X1	
Dimensions(L*W*D) (mm)	86 x 86 x 51.8	
Uplink-port	1* 10/100 /1000Base-T (PoE)	
Downlink port	1* 10/100 /1000Base-T	
Power supply	802.3 at PoE	
LED indicators	Power	
Maximum power consumption	<12W	
Antenna gain	Built-in 2.4 GHz 3 dBi antenna and 5 GHz 3 dBi 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: 20dBm 5G : 20dBm (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	In-wall dual-frequency
	Working frequency band	2.4GHz and 5GHz
	Bandwidth performance	1775Mbps
	Virtual AP (BSSID)	8 (4 for each radio)
	Concurrent user	128
	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 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 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*
	Binding SSID with VLAN	*Yes*
	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 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*
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 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 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)*
	Remote probe analysis	*Yes*
	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	*WeChat, SMS, QR code*
	Passenger flow analysis	*Yes*

TYPICAL APPLICATION

Hospital

- 802.11a/b/g/n/ac/ax
- High Performance 1775Mbps
- 802.3at PoE
- X86 Standard, Easy Installation
- Multiple gigabit downlink port

ORDER INFORMATION

Product	***Description***
AIR-WAP602-X1	*AirPro Indoor Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported (2.4GHz:2*2, 5GHz 4*4), upto 1775Mbps access rate, fat/fit/bridge, 802.3 af & at, managed by AirPro hardware controller & cloud platform*

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