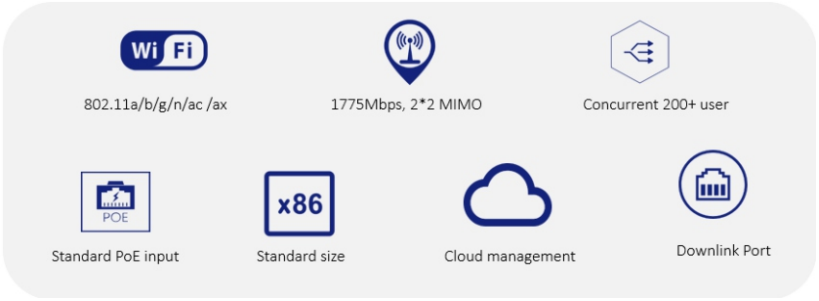
DATASHEET

AIR-WAP602-X1

Dual band high-performance in-wall Gigabit wireless access point

QUICK OVERVIEW

AIR-WAP602-X1 is a dual-band high-performance in-wall gigabit wireless access point device based on the 802.11ax standard launched by AIRPRO, it could offer maximum 1775Mbps access rate. AIR-WAP602-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-WAP602-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.



FEATURES

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 bandwidth up to 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 standards, and can perfectly fit plug-in installed to any standard panel, With the use of the PoE cable, the whole installation will be low cost, no noise, short period (the time to install an APis 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 switch (cisco, HUAWEI, juniper,AirPro etc.) which support 802.3at standard, this allows to power up AIR-WAP605-X1 directly, power adapter is not required anymore.

Dual-mode fit & fat:

AIR-WAP602-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 FEATURES		
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 802.11ax/ac: 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	–10°C to +55°C	
temperature	–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 eash 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

TECHNICAL SPECIFICATIONS

HARDWARE FEATURES		
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.
	WMM	Yes
QoS	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
	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 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

AIR-WAP605-X1

Dormitory room

- 802.11a/b/g/n/ac /ax
- High performance, 1775Mbps
- 802.3 at 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 2*2), max 1775Mbps access rate, fat & fit, 802.3 at, managed by AIRPRO hardware controller & cloud platform.

www.airpro.in