

Dual band high-performance gigabit wireless access point

PRODUCT OVERVIEW

AIR-WAP610-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 2976Mbps 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 574Mbps; the second radio works in the 5GHz frequency band and can provide access rate of upto 2402Mbps.



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



2976Mbps, 2*2 MIMO



128 concurrent users



Standard PoE Input



Standard Size



Cloud Management



Downlink Port

KEY FEATURES AND HIGHLIGHTS

802.11ax Wi-Fi 6 wireless access point:-

AIR-WAP610-AX supports the 802.11ax standard, operates in both 2.4 GHz and 5 GHz band, and provides an access rate upto 2976 Mbps. This model is a high-end in-wall access point for hotel, education, government and business networks.

Wired and wireless gigabit access:-

AIR-WAP610-AX has an integrated gigabit wired uplink port which can truly meet the wireless bandwidth requirement of clients. It also has four-gigabit downlink Ethernet ports which support flexible VLAN configuration so that the wired and wireless traffic can be logically separated.

Good PoE compatibility:-

AIR-WAP610-AX can work well with all PoE switches (viz. Cisco, HUAWEI, Juniper, etc.) which support 802.3af/at standard. This allows AIR-WAP610-AX to power up directly without any power adapter.

Multiple Gigabit downlink ports:-

AIR-WAP610-AX can provide 4 Gigabit downlink ports that allow the customer to connect the terminals which do not support Wi-Fi, and provides more stable connections.

Easy to deploy x86 standard panel:-

AIR-WAP610-AX 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).

Multi-mode: fit, fat, bridge:-

AIR-WAP610-AX 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-WAP610-AX | |
|---------------------------------------|---|--|
| Dimensions (L*W*D) (mm) | 160x86x38 | |
| Uplink port | 1*1000M Ethernet uplink port | |
| Downlink ports | 4* 10/100/1000M ports | |
| BLE | supports BLE | |
| The anti-theft screw | supports an anti-theft screw | |
| Power supply | 802.3af & at and External power adapter (Input: 100 ~ 240V AC , Output: 48 V DC) | |
| Maximum power consumption | <15W | |
| RF port | 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 5.725GHz 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 (Per Chain) 5G : 20dBm (Per Chain) (Note: final output power comply with deployment regulation might be different) | |
| Power adjustment granularity | 1 dBm | |
| Working/Storage temperature | -0°C to 40°C -40°C to +70°C | |
| Working/Storage RH | 5% to 95% (non-condensing) | |
| Protection level | Ip31 | |
| WLAN | Product positioning | In-wall dual-frequency |
| | Working frequency band | 2.4GHz and 5GHz |
| | Bandwidth performance | 2976Mbps |
| | Virtual AP (BSSID) | 32 |
| | Concurrent user | 128 |
| | 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 |
| | 11n enhancements | Intelligent control of terminals based on airtime fairness |
| High-density application optimization | | Yes |
| Space streams | | 2.4GHz:2, 5GHz:2 |
| Frequency band | | 2.4GHz +5GHz |
| 80 MHz bundling | | Yes |
| 1200M bps PHY | | Yes |
| Frame aggregation (A-MPDU) | | Yes |
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| 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 | |

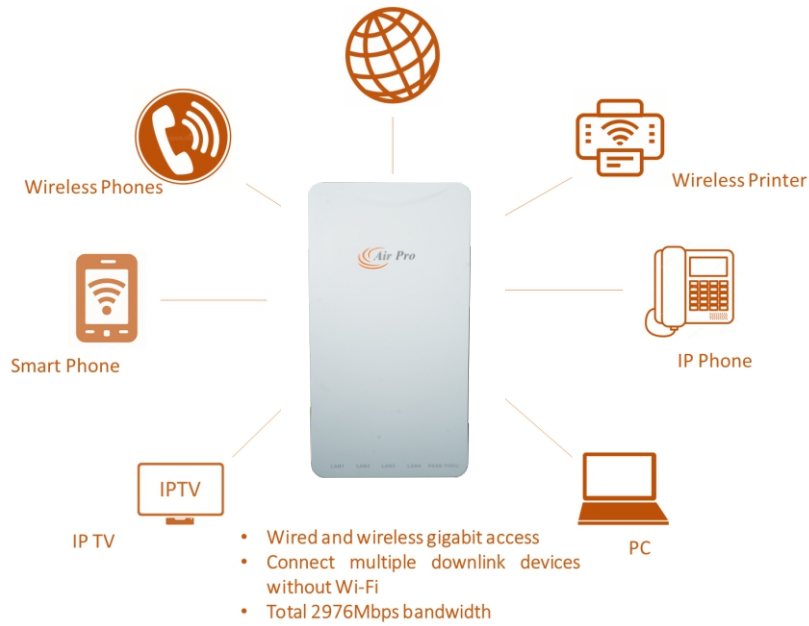
PRODUCT SPECIFICATIONS

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 | |
| 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 |
| | Dual-image (dual-OS) backup mechanism | 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 |
| | Bluetooth | Yes |

TYPICAL APPLICATION

Hardware Specifications



- 802.11 a/b/g/n/ac/ax
- High performance, 2976Mbps
- 802.3 af/at PoE
- X86 standard, easy installation
- Multiple gigabit downlink port

ORDER INFORMATION

| Product | Description |
|---------------|---|
| AIR-WAP610-AX | AirPro In-wall Wi-Fi 6 AP, 802.11a/b/g/n/ac/ax supported (2.4GHz:2*2, 5GHz 2*2), upto 2976Mbps access rate, built-in antenna, 1 Gigabit uplink port, 4 Gigabit wired ports, fat/fit/bridge, 802.3 af & at, managed by AirPro hardware controller & cloud platform |



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