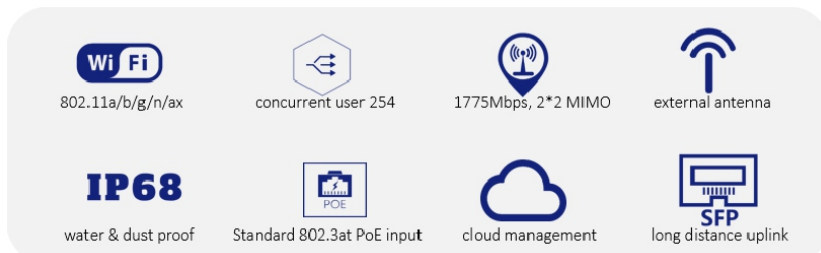


High Performance Outdoor Wireless Access Point

QUICK OVERVIEW

AirPro AP690EX(ODU) is high performance outdoor wireless access point which can support 2.4 GHz and 5 GHz band, adopting technologies such as Multi-User Multiple-Input Multiple-Output (MU-MIMO) and orthogonal frequency division multiplexing (OFDM), providing a data transmission rate of at most 575 Mbps in 2.4GHz band and 1200Mbps in 5GHz band. It supports up to 254 concurrent users. With external antenna, AP690EX(ODU) is widely used at outdoor WIFI coverage networks, such as campus, streets, rural area, resorts and scenic spots.



FEATURES

High-level outdoor 802.11ax wireless access:

The AP690EX(ODU) supports the 802.11ax standard and can operate in 2.4 GHz and 5 GHz both bands. It provides an access bandwidth up to 1.775Gbps, which can connect users up to 254 simultaneously.

Fiber uplink for long-distance connection:

Fiber port used as uplink ports, which break through the limitations of the conventional copper port, the distance is no longer a bottleneck.

Operating in a wide temperature range:

Thanks to deliberate hardware design and the selection of dedicated components it can operate in a broad temperature range from -40°C to 65°C.

Highest IP68 Anti-dust & water standard:

AP690EX(ODU) comply IP68 can be deployed in the harshest outdoor environment.

Multiple antenna options:

AP690EX(ODU) supports external antennal (omnidirectional, directional), the customer can make use accordingly.

Good PoE compatibility:

AP690EX(ODU) can work well with the third-party PoE switches that support 802.3at standard.

High-performance RF:

The professional optimized design is employed for the RF module of the AP690EX(ODU), integrated directional antenna supports 27 dB transmission power which can greatly improve wireless coverage.

Support WDS mode:

Support WDS mode under both fit/fat AP mode. Use 2.4GHz and 5GHz achieve a wireless bridging function.

Cloud management:

AP690EX(ODU can operate with the AirPro cloud platform seamless to provide a better cost-performance solution.

Dual-mode fit & fat:

AP690EX(ODU 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)	245 × 200 × 90																				
Working Frequency	2.4G : 802.11b/g/n/ax 5G : 802.11a/n/ac/ax																				
Maximum Data Rate	2.4G : 575Mbps 5G : 1200Mbps																				
Physical Port	1 * 10/100/1000Base-T PoE port for uplink 1 * 1000M SFP fiber port																				
PoE	802.3at																				
Maximum power consumption	< 23.4W																				
Antenna	External Antenna																				
Working frequency band	802.11a/n/ac: 5.150 GHz to 5.850 GHz 802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11a/n/ac/ax: 5.150 ~ 5.350GHz 5.47 ~ 5.725GHz 5.725 ~ 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: 27dBm 5G : 27dBm (Note : final output power comply with deployment regulation might be different)																				
Power adjustment granularity	1 dBm																				
Working/Storage temperature	-40°C to + 65°C -45°C to + 80°C																				
Working/Storage RH	5% to 95% (non-condensing)																				
Protection level	IP68																				
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WLAN	RTS/CTS RF environment scanning Hybrid access Restriction on the number of access users Link integrity check Accessing control of terminals based on signal strength Forcing terminals to roam based on signal strength Intelligent control of terminals based on airtime fairness High-density application optimization	Yes Yes Yes Yes Yes Yes Yes Yes
802.11ax enhancements	Space streams Frequency band 80 MHz bundling 1200Mbps (PHY) Frame aggregation (A-MPDU) Frame aggregation (A-MSDU) Maximum likelihood demodulation (MLD) Transmit beamforming (TxBF) Maximum ratio combining (MRC) Space-time block coding (STBC) Low-density parity-check code (LDPC)	2.4GHz:2, 5GHz:2 2.4GHz + 5GHz Yes Yes Yes Yes Yes Yes Yes Yes Yes
Security	Encryption 802.11i Portal authentication WAPI MAC address authentication LDAP authentication PEAP authentication WIDS/WIPS Protection against DoS attacks Forwarding security User isolation Periodic SSID enabling and disabling Access control of free resources Wireless SAVI ACL Secure access control of APs 802.11W	64/128 WEP, TKIP, and CCMP encryption Yes Yes Yes Yes Yes Yes Anti-DoS for wireless management packets Frame filtering, white list, static blacklist, and dynamic blacklist AP L2 forwarding suppression Isolation between client Yes Yes Yes Access control of various data packets such as MAC, IPv4, and IPv6 packets Secure access control of APs, such as MAC authentication, password authentication, or digital certificate authentication between an AP and an AC Yes, encryption of management frames
Forwarding	IP address setting IPv6 forwarding IPv6 portal Local forwarding Multicast Roaming AP switching reference WDS	Static IP address configuration or dynamic DHCP address allocation Yes Yes Yes IGMP snooping Yes Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc. Yes
	WMM Priority mapping	Yes Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities

QoS	<p>QoS policy mapping</p> <p>L2-L4 packet filtering and flow classification Load balancing</p> <p>Bandwidth limit</p> <p>Call admission control (CAC) Power saving mode Automatic emergency mechanism of APs Intelligent identification of terminals Multicast enhancement</p>	<p>Mapping of different SSIDs/VLANs to different QoS policies Mapping of data streams that match with different packet fields to different QoS policies Yes: MAC, IPv4, and IPv6 packets Load balancing based on the number of users Load balancing based on user traffic Load balancing based on frequency bands Bandwidth limit based on Aps Bandwidth limit based on SSIDs Bandwidth limit based on terminals Bandwidth limit based on specific data streams CAC based on the number of users Yes Yes Yes Multicast to unicast</p>
Management	<p>Network management</p> <p>Maintenance mode Log function Alarm Fault detection Statistics Switching between the fat and fit modes</p> <p>Remote probe analysis Watchdog</p>	<p>Centralized management through an AC; both fit and fat modes Both local and remote maintenance Local logs, Syslog, and log file export Yes Yes Yes An AP working in fit mode can switch to the at mode through a wireless AC; An AP working in fat mode can switch to the fit mode through a local control port or Telnet. Yes Yes</p>
Value added service	<p>Value added marketing</p> <p>Value added authentication Passenger flow analysis</p>	<p>Support: various apps based on intelligent terminals, advertising push based on location, personalized push of portals WeChat, SMS, QR code Yes</p>



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