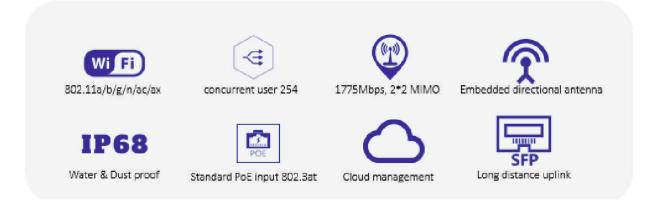


High Performance Outdoor Wireless Access Point

AP690IX (ODU)

Quick Overview

AirPro AP690IX(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 integrated antenna inside, AP690IX(ODU) is widely used at outdoor WIFI coverage networks, such as campus, streets, rural area, resorts and scenic spots.



Features

High-level outdoor 802.1ax wireless access:

The AP690IX(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:

AP690IX(ODU) comply IP68 can be deployed in the harshest outdoor environment.

Good PoE compatibility:

AP690IX(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 AP690IX(ODU), integrated directional antenna supports 27 dB transmission power which can greatly improve wireless coverage.

Cloud management:

AP690IX(ODU can operate with the AirPro cloud platform seamless to provide a better costperformance solution.

Dual-mode fit & fat:

AP690IX(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	5		
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	Internal Antenna 2.4G 10dBi, 5G 10dBi		
Working frequency band	802.11a/n/ac: 5.150 GHz to 5.850 GHz		
c . <i>,</i>	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, DBPS	SK@1Mbps	
	11a/g : OFDM:64QAM@48/54Mbps,16QAM@24Mb	-	
	11n : MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM		
	11ac : MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,2	256QAM	
	11ax : MIMO-OFDMA: BPSK, QPSK,16QAM,64QAM		
Transmit power	2.4G: 27dBm		
	5G : 27dBm		
	(Note : final output power comply with deployment re	aulation might be different)	
Power adjustment	1 dBm	guatormight be differently	
granularity	1 dbm		
Working/Storage	-40°C to + 65°C		
temperature	-45°C to + 80°C		
Working/Storage RH	5% to 95% (non-condensing)		
Protection level			
FIGUECUOITIEVEI	Product positioning	Outdoor dual-frequency	
	Working frequency band	2.4GHz and 5GHz	
	Bandwidth performance	1775Mbps	
	Virtual AP (BSSID)	32	
	Concurrent user	32 254	
	Number of spatial streams	2.4GHz:2, 5GHz:2 Yes	
	Dynamic channel adjustment (DCA)		
	Transmit power control (TPC)	Yes	
	Blind area detection and repair	Yes	
	SSID hiding RTS/CTS	Yes	
WLAN		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	
	Space streams	2.4GHz:2, 5GHz:2	
	Frequency band	2.4GHz + 5GHz	
	80 MHz bundling	Yes	
	1200Mbps (PHY)	Yes	
	From a agregation (A MDDU)	Yes	
	Frame aggregation (A-MPDU)		
802.11ax	Frame aggregation (A-MFDO) Frame aggregation (A-MSDU)	Yes	
802.11ax enhancements		Yes Yes	
	Frame aggregation (A-MSDU)		
	Frame aggregation (A-MSDU) Maximum likelihood demodulation (MLD)	Yes	
	Frame aggregation (A-MSDU) Maximum likelihood demodulation (MLD) Transmit beamforming (TxBF)	Yes Yes	

TECHNICAL SPECIFICATIONS

Encryption 64/128 WEP, TKIP, and CCMP encryption 802.111 Yes Portal authentication Yes WARI McC address authentication Yes WARI Yes McC address authentication Yes PEAP authentication Yes Protection against DoS attacks Frame filtering, white list, static blacklist, and dynamic blacklist Forwarding security Frame filtering, white list, static blacklist, and dynamic blacklist User isolation Previde: SSID enabling and disabiling Yes Accl. Access control of free resources Yes Wireless SAVI Yes Secure access control of APs Secure access control of APs Secure access control of APs Secure access control of APs Secure access control of APs Forwarding IP address setting Static IP address allocation Preve IP of forwarding Yes Yes Yes Forwarding IP address setting Static IP address allocation Yes IP of forwarding Yes Yes Yes Forwarding method Yes Yes	HARDWARE FEATURES		
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MAC address authentication Yes LDAP authentication Yes PEAP authentication Yes PEAP authentication Yes Protection against DoS attacks Anti-DoS for wireless management packets Forwarding security Frame filtering, white list, statc blacklist, and dynamic blacklist and dynamic blacklist Previde its SSID enabling and disabling Access control of free resources Yes Vireless SAVI Yes ACL Access control of free resources Secure access control of free resources Yes ACL Secure access control of an PAs, such as MAC authentication, password authentication, or digital certificate authentication, or digital certificate authentication or dynamic PEP address setting Static P address configuration or dynamic Porwarding Yes Forwarding Yes Muticast IGMP snooping Roaming Yes Portorus adjing reference Signal strength, bit error rate, RSSI, S/N, whether neighboring APS are normally operating, etc. VDS Yes QoS policy mapping Ethernet port 802, Pidentification and marking<		Portal 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 Hard Forwarding suppression Virieless SAVI Yes Access control of free resources Yes Access control of APs Secure access control of APs, and Ive packets Secure access control of APs Secure access control of APs, and Ive packets Secure access control of APs Secure access control of APs, and Ive packets Secure access control of APs Secure access control of APs, and Ive packets Secure access control of APs Secure access control of APs, and Ive packets Secure access control of APs Secure access control of APs, and PvG packets Secure access control of APs Secure access control of APs B02:11W Yes Yes ortal Yes Forwarding Yes IPv6 forwarding Yes IPv6 forwarding Yes Priorting methoning APs are normally operating, etc.		WAPI	Yes
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Automatic emergency mechanism of APsYesIntelligent identification of terminalsYes			
Intelligent identification of terminals Yes		-	
Multicast ennancement Multicast to unicast			



Model No. AP690IX (ODU)

TECHNICAL SPECIFICATIONS

HARDWARE FEATURES		
	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
Management	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 marketing	Support: various apps based on intelligent
		terminals, advertising push based on
Value added service		location, personalized push of portals
	Value added authentication	WeChat, SMS, QR code
	Passenger flow analysis	Yes



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