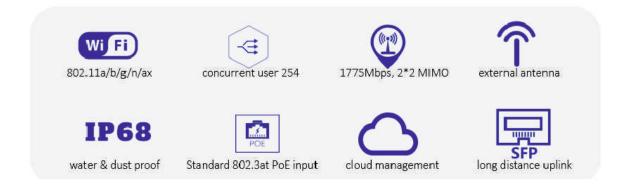


High Performance Outdoor Wireless Access Point

AP690EX (ODU)

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 802.1ax 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 simultaneousl.

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:

 ${\sf AP690EX}({\sf ODU})\, {\sf comply}\, {\sf IP68}\, {\sf can}\, {\sf be}\, {\sf deployed}\, {\sf in}\, {\sf the}\, {\sf harshest}\, {\sf outdoor}\, {\sf environment}.$

Multiple antenna options:

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

Model No. AP690EX (ODU)

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 costperformance 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	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, DBPS	-		
	11a/g:OFDM:64QAM@48/54Mbps,16QAM@24Mb	ps, QPSK@12/18Mbps, BPSK@6/9Mbps		
	11n : MIMO-OFDM: BPSK, QPSK,16QAM,64QAM			
	11ac : MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 2			
11ax : MIMO-OFDMA: BPSK, QPSK,16QAM,64QAM,256QAM,102 Transmit power 2.4G: 27dBm		,256QAM,1024QAM		
Transmit power	5G : 27dBm			
	(Note : final output power comply with deployment re	aulation might be different)		
Power adjustment	1 dBm	gulation might be differently		
granularity				
Working/Storage	-40°C to + 65°C			
temperature	-45°C to + 80°C			
Working/Storage RH	5% to 95% (non-condensing)			
Protection level	IP68			
	Product positioning	Outdoor dual-frequency		
	Working frequency band	2.4GHz and 5GHz		
	Bandwidth performance	1775Mbps		
	Virtual AP (BSSID)	32		
	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		
WLAN	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 80 MHz bundling	2.4GHz + 5GHz Yes		
	1200Mbps (PHY)	Yes		
	Frame aggregation (A-MPDU)	Yes		
	Frame aggregation (A-MSDU)	Yes		
	Maximum likelihood demodulation (MLD)	Yes		
	Transmit beamforming (TxBF)	Yes		
		Vee		
	Maximum ratio combining (MRC)	Yes		
		Yes Yes Yes		

Air Pro

TECHNICAL SPECIFICATIONS

Encryption 64/28 WEP, TKIP, and CCMP encryption 902.111 Yes Portal authentication Yes WAPI Yes MAC address authentication Yes EVER Parthentication Yes Protection against DS attacks Anti-DoS for wireless management packets Forwarding security Yes UBS*/MIPS Yes Virolesion Yes Protection against DS attacks Frame filtering, white list, static blacklat, and dynamic blacklat Jeer isolation AP 12 forwarding suppression Loatation between cilent Yes Vireless SAVI Yes Wireless SAVI Yes ACL Access control of APs Secure access control of APs Secure access configuration or dynamic DHCP address allocation IP-6 forwarding Yes IP-6 forward	HARDWARE FEATURES		
Portal authentication Yes MAC address authentication Yes MAC address authentication Yes PEAP authentication Yes PEAP authentication Yes Protection against DoS attacks Anti-DoS for wireless management packets Forwarding security Frame filtering, white list, static blacklist, and dynamic blacklist ad dynamic blacklist and dynamic blacklist Access control of frame resources Yes Wireless SAVI Yes Security Yes Periodic SSID enabling and disabiling Access control of APs, such as MAC Access control of Frame resources Yes Wireless SAVI Yes Secure access control of APs Secure access control of APs, such as MAC authentication, password authentication, or adjust certificate authentication, password		Encryption	64/128 WEP, TKIP, and CCMP encryption
WAPI Yes MAC address authentication Yes LDAP authentication Yes UDAP authentication Yes PEAP suthentication Yes Protection against DoS attacks Ant-DoS for wireless management packets Protection against DoS attacks Ant-DoS for wireless management packets Forwarding security Frame filtering, white list, static blacklist, and dynamic blacklist User isolation Kall Static S		802.11i	Yes
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Automatic emergency mechanism of APsYesIntelligent identification of terminalsYes			
Intelligent identification of terminals Yes		-	



Model No. AP690EX (ODU)

TECHNICAL SPECIFICATIONS

HARDWARE FEATURES	S	
	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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