

Wi-Fi6 802.11ax indoor Dual Band Access Point

Introduction



VAP76601 802.11ax dual-band wireless is an enterprise-level access point (2.4GHz 2*2 ax and 5GHz 2*2 ax). The total data rate can reach 1.774Gbps. By seamlessly working with ABLOOMY local AC (CAM), ABLOOMY private cloud (CSP) and ABLOOMY public cloud (ACS), it can build all kinds of customized, enterprise-grade wireless networks through an approach which combines simplicity, scalability, extensibility, reliability, performance and security. It is suitable for the deployment in small and medium-sized enterprises, commercial environments such as airport stations, stadiums, cafes, and leisure centers.

Highlights

Wi-Fi 6(802.11ax)

Supports 1024QAM modulation and 2×2MIMO, the data rate of the 5GHz air interface is up to 1.2Gbps, and the whole device data rate is 1.774Gbps. The support of OFDMA scheduling enables multiple users to receive and send data at the same time, reducing delay and improving performance.

Load Balancing and Band Steering

Supports load balancing based on the number of access users, traffic, and frequency bands, and the system automatically guides users to the 5GHz frequency band by default, which maximizes network capacity and ensures the best access experience for users.

Zero Touch Provision

Fully supports plug-and-play deployment. No matter the network environment is complex or not, whether the device is deployed in the public or private network, as long as the device can access the AC, the system can automatically complete the configuration and the network is up running without manual intervention.

Easy Maintenance

Supports real-time monitoring and alarms based on AP system status, and sending alarms automatically when detecting faults; supports automatic software update in batch mode based on policies of AP location, model, version, and the update time.

Network Security

Supports L4 stateful firewall, role-based NAC (Network Access Control), white/black lists, URL logging, and full 802.11i security standard.

Auto Power and Auto Channel

Supports automatic TX power adjustment to automatically detect and compensate the signal coverage; supports automatic/manual adjustment of channels to ensure that the AP is in the best radio frequency environment and provide users with the best QOS.

Hardware Specification

Dimensions (L, W, H)	210mm(H) × 210mm(W) × 45mm(D)				
Ports	1× 10/100/1000Mbps Ethernet Port (PoE)				
	1× 10/100/1000Mbps Ethernet Port				
	1 DC Power Jack				
	1 Reset Pinhole				
Memory	DDR3 512MB	DDR3 512MB			
Flash	16MB SPI, 128MB NAND FLASH				
CPU	Qualcomm IPQ60XX				
	2.4GHz				
DE.	✓ 802.11ax 2.4GHz 2x2				
RF	5GHz				
	✓ 802.11ax 5GHz 2x2				
	Frequency: 2.4GHz				
Antenna Index	✓ Max gain: ≥5dBi				
Antenna muex	Frequency: 5.15~5.85GHz				
	✓ Max gain: ≥5dBi				
Max transmit power ±2dB	2.4GHz	5GHz			
11 b (1Mbps)	22	-			
11 b (11Mbps)	20	-			
11 g (6Mbps)	22	-			
11 g (54Mbps)	20	-			
11 a (6Mbps)	-	22			
11 a (54Mbps)	-	20			
HT20(MSC 0/8)	22	22			
HT20(MSC 7/15)	20	20			
HT40(MSC 0/8)	22	22			
HT40(MSC 7/15)	18	18			
VHT80 256QAM MCS0	20	20			
VHT80 256QAM MCS9	17	16			
VHT80 1024QAM MCS0	20	19			
VHT80 1024QAM MCS11	16	15			
Single Stream Receive	2.4GHz	5GHz			
Sensitivity ± 2 dB	2.40П2	Запи			
11 g (6Mbps)	-89	-			
11 g (54Mbps)	-72	-			
11 a (6Mbps)	-	-88			
11 a (54Mbps)	-	-70			
HT20 MSC 0	-89	-88			

-68	-68	
-85	-84	
-65	-65	
	-63	
	03	
_	-61	
_	-01	
	60	
-	-60	
	-58	
-	-56	
	-57	
-	-37	
	-55	
-	-33	
-	-48	
External DC power supply: 12 V DC (not included in the package)		
PoE power supply		
4× LED(Power,LAN,2.4G,5G)		
IEEE802.11a/b/g/n/ac/ax		
2.4GHz和5GHz		
Ceiling mounting bracket (provided with AP)		
Temp: 0° C to +45° C (+32° F to +113° F)		
Humidity: 5% to 95% non-condensing		
	-85 -65 -65 - External DC power supply: 12 V DC (not inc PoE power supply 4× LED(Power,LAN,2.4G,5G) IEEE802.11a/b/g/n/ac/ax 2.4GHz和5GHz Ceiling mounting bracket (provided with AFTemp: 0° C to +45° C (+32° F to +113° F)	

Software Specification

WLAN Characteristic	Comply with IEEE801.11a/b/g/n/ac/ax standard
	Support dynamic rate adjustment
	Support 1024QAM modulation
	Support 802.11ax standard, support OFDMA and other features, OFDMA scheduling
	enables multiple users to receive and send information at the same time, reducing
	delay and improving network efficiency
	Support automatic channel scanning and manual selection
	Support dynamic power adjustment and manual power adjustment
	Support fast roaming protocol (802.11r 802.11k)
	Support Short GI in 20M, 40M, 80M mode
	Support Chinese SSID function
	Support WMM, realize application-based data processing and forwarding functions
	Support 5G access priority function
	Support load balancing based on AP traffic, frequency band and number of users
Security Characteristic	Support Open-system authentication method
	Support WEP authentication/encryption method

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		Support WPA/WPA2-PSK authentication/encryption method		
		Support WPA/WPA2-802.1X authentication/encryption method		
		Support WPA-WPA2 hybrid authentication method		
		Support WPAI authentication/encryption method		
		Support 802.1X, Mac, portal, SMS + non-perceptual authentication methods		
		Support local forwarding and centralized forwarding data traffic		
		Support user access isolation under the same SSID		
		Support user access (ACL)		
		Support bandwidth control based on each user		
		Support speed limit based on WAN port bandwidth		
		Support network detection based on Ping and Arp		
Nationals Changasta data		When supporting local forwarding mode and AC bypass deployment, traffic will not		
Network Characteristic		be interrupted after AP and AC are disconnected		
		Support AC active/standby selection		
		Support DHCP Server, client obtains IP address through AP		
		Support static IP/DHCP/PPOE and other network access methods		
		Support IPV6 function		
		Support Soft-GRE function		
		Support VPDN function		
		Support AP cross-Internet access AC mode deployment		
		Support Web user management (HTTP)		
		Support CLI-based management		
		Support SSH-based management		
Management	&	Support remote modification of AP login password		
Maintenance		Support AP to go online automatically and load configuration (plug and play)		
		Support LED light control		
		Support schedule restart setting		
		Support batch modification of AP's AC access address		
		Support batch upgrade based on AP location, AP model and AP version		
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