

VAP6656B 802.11ac Wave2 Outdoor AP

Introduction



VAP6656B is a dual-band 802.11ac wave2 access point supporting 2x2 MIMO and a data rate of up to 1267Mbps. It complies with the requirements of IP67. 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 ISPs, campus, parks, commercial streets, etc.

Highlights

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 Provisioning

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 touch.

Easy Maintenance

Supports real-time monitoring AP system status and sending alarms automatically when detecting faults; supports automatic software update in the batch mode based on the 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

Dimension(l*w*h)	214mm*214mm*67.5mm		
Weight	1.7kg		
External Interfaces	LAN1(POE): 10/100/1000 Base-TX MDI/MDIX RJ-45 port with PoE PD 802.3 af/at LAN2 : 10/100/1000Mbps Full/Half Duplex Ethernet Compliant with following standards: 1. IEEE 802.3/802.3u 2. Hardware based 10/100/1000, full/half, flow control auto negotiation 3. Full duplex IEEE 802.3x flow control and half duplex back-pressure flow control		
Power Supply	supports POE PD 802.3af/at @ LAN 1 default, LAN 2 optional supports 12V DC through the terminal block (external AC-DC power adapter sold separately)		
Radio	2.4GHz/5GHz		
Antenna	Max gain @ 2.4GHz: 7.8 dBi (HPBW horizontal 75°, vertical 40°) Max gain @ 5GHz: 8.3 dBi (HPBW horizontal 80°, vertical 37°)		
Transmit power (per chain)	Maximum Transmit Power (per chain) ±2 dB		
		2.4GHz	5GHz
	11 g (6Mbps)	24	-
	11 g (54Mbps)	22	-
	11 a (6Mbps)	-	24
	11 a (54Mbps)	-	22
	HT20(MCS 0/8)	24	24
	HT20(MCS 7/15)	22	20
	HT40(MCS 0/8)	23	23
	HT40(MCS 7/15)	20	19
	VHT80 256QAM @ 3/4 Code Rate	-	17
	VHT80 256QAM @ 5/6 Code Rate	-	16
RX Sensitivity (per chain)	Receive Sensitivity (per chain) max hardware capability		
		2.4GHz	5GHz
	11 g (6Mbps)	-93	-
11 g (54Mbps)	-76	-	

	11 a (6Mbps)	-	-93		
	11 a (54Mbps)	-	-76		
	HT20(MCS 0/8)	-92	-92		
	HT20(MCS 7/15)	-73	-71		
	HT40(MCS 0/8)	-90	-89		
	HT40(MCS 7/15)	-70	-68		
	VHT20 MCS 9	-	-65		
	VHT40 MCS 9	-	-64		
	VHT80 MCS 9	-	-60		
LED	LED indicators		Color	Status	Description
	Power		Amber	Solid Light	System is booting up
				Light off	System booted
			Green	Solid Light	System is ready
				Light off	Power off
	WLAN	5G	Green	Solid Light	Connect to WLAN port
				Blinking	WLAN activity present
				Light off	No activity or power off
			Amber		Reserved
		2.4G	Green	Solid Light	Connect to WLAN port
				Blinking	WLAN activity present
				Light off	No activity or power off
			Amber		Reserved
	LAN	Green	Solid Light	Device connected to LAN port at 10/100/1000Mbps	
			Blinking	LAN Activity present	
			Light off	Not Connected	
Operation Temperature	-Temp: -20° C to +65° C -Humidity: 5% ~ 95% non-condensing				
Storage Temperature	-Temp: -20° C to +70° C -Humidity: 5% ~ 95% non-condensing				
Mounting	supports pole mounting <ul style="list-style-type: none"> ▪ Pole mount diameter range 80~140mm supports wall mounting				
Water proofing	IP67 rated				
Wind resistance	Sustained wind: 100MPH Wind gust: up to 165MPH				

Software Specification

WLAN	Comply with IEEE801.11a b/g/n/ac wave2 standard
	Support dynamic rate adjustment
	Support channel automatic scanning and manual selection
	Support dynamic and manual power adjustment
	Support fast roaming protocol (802.11r 802.11k)
	Support ShortGI in 20M, 40M, 80M mode
	Support WMM
	Support band steering
	Support load balancing based on AP traffic, frequency band and number of users
	Support Hotspot 2.0
Security	Support Open-system Authentication method
	Support WEP Authentication/Encryption method
	Support WPA/WPA2-PSK Authentication/Encryption method
	Support WPA/WPA2-802.1X Authentication/Encryption method
	Support WPA-WPA2 combine Authentication method
	Support WPAI Authentication/Encryption method
	Support 802.1X, MAC, portal, SMS and some social-media authentication methods
Support data traffic local forwarding and centralized forwarding	
Network	Support user access isolation under the same SSID
	Support role-based NAC (network access control) and ACL
	Support bandwidth control based on each user
	Support speed limit based on WAN port bandwidth
	Support network detection based on Ping and Arp
	Support switching AP to the standalone mode when the connection between AP and AC is lost to make sure the data traffic is not interrupted
	Support AC active/standby deployment
	Support DHCP Server
	Support Static IP/DHCP/PPOE
	Support IPV6
	Support Soft GRE、VPDN
Support AP and AC deployed in the cross-Internet mode	
Management & Maintenance	Support Cloud or AC based centralized management
	Support Web UI Management (HTTP)
	Support CLI (SSH) management
	Support console-based management
	Support updating AP's local credential remotely
	Support Zero Touch Provisioning
	Support LED light control
	Support scheduled restart of AP
	Support batch modification of AP's AC access address
	Support software update in the batch mode based on the policies of AP location, model, version and update time
	Support AP status alarm