VAP7718A 11ac Wave2

Tri-band Ceiling AP

Introduction

VAP7718A is a Tri-band 802.11ac wave2 access point., the 2.4G frequency band supports 2×2 MIMO and 2 spatial streams; the 5G frequency band supports two radio frequencies, and one 5G radio frequency supports 2×2 MIMO and 2 spatial streams, the other 5G radio supports 4×4 MIMO and 4 spatial streams, and the overall rate is up to 3Gbps. 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 works well in any high-density Wi-Fi coverage environment, such as school, healthcare, hospitality, enterprise and shopping malls.

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

Physical	Dimension(L*W*H)	196mm*196mm48.5mm
	Weight	900g
	Port	10/100/1000M auto negotiate (RJ45×2)
		Reset Button：Factory reset
		DC Jack
		Safety slot
	LED	Indicate power-on status, start-up status, running status, alarm and fault status of the system
Power	Power Input	DC：12V,2A
	Max Consumption	PoE power supply
Environment	Working Temp	0~45℃(+32 °F to +113 °F)
	Storage Humidity	-20℃~60℃
	Working Humidity	5%~95% non-condensing
RF	Antenna	Integrated dual Omni antenna
	Gain	2.4G: 4dBi 5G-1: 4dBi 5G-2: 4dBi
	SSID (VAP)	Each SSID: 32
	Max Users	758
	Max TX	2.4G: 21dBm 5G-1: 21dBm 5G-2: 21dBm Subject to local regulatory requirement
	RSSI	

	2.4GHz	5GHz
11 g (6Mbps)	-93	–
11 g (54Mbps)	-76	–
11 a (6Mbps)	-	-93
11 a (54Mbps)	-	-76
HT20(MSC 0/8)	-92	-92
HT20(MSC 7/15)	-73	-71
HT40(MSC 0/8)	-90	-89
HT40(MSC 7/15)	-70	-68
VHT20 MCS 9	-	-65
VHT40 MCS 9	-	-64
VHT80 MCS 9	-	-60

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
	Support 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