VAP6356A Outdoor Access Point

Designed with enterprise-grade requirements in mind, VAP6356A is a low cost dual-band 802.11n access point supporting 2x2:2 MIMO and a data rate of up to 600Mbps. VAP6356A has one of the lowest costs of any available outdoor access point. The access point complies with the requirements of IP67 and lightning protection. They can seamlessly work with ABLOOMY local AC (CAM), ABLOOMY private cloud (CSP) and ABLOOMY public cloud (ACS). Leveraging a purpose-built edge-computing architecture, ABLOOMY access points build all kinds of customized, enterprise-grade wireless networks through an approach which combines simplicity, scalability, extensibility, reliability, performance and security.

Features

Plug-and-Play
With zero configurations, ABLOOMY access points can be activated and up-and-running in seconds.

Self-optimizing
The Tx power can be adjusted automatically based on the RF environment to achieve the best wireless coverage; the automatic radio channel adjustment ensures that the AP is running on the best radio channel to reduce RF interference and congestion.

Load Balancing
Supports load balancing based on users and traffic.

Band Steering
Manages radio-band usage and pushes clients to use 5GHz channels for lower interference and better performance.

Network functions
Support NAT, Firewall, QoS and other network gateway functions.

Security
Advanced security features, such as WPA2-AES, 802.1X, firewall, role-based access control, rogue AP detection and user isolation, help to create enterprise secure wireless networks.

Guest networks
Provides isolated internet-only access for visitor. Enforces customized network access control policies.

Traffic shaping
Controls bandwidth usage based on ports, users and vlan.

Data analytics
Collects and visualizes the data from both the network and the physical world, providing visibility regarding network status and visitor statistics.

Location Based Service
Tracks client location with a patented algorithm based on Wi-Fi RF fingerprint, providing the client with proper localized services.

Automatic Maintenance
By monitoring the network status in real time, the AP system will create alerts, providing the knowledge for rapid troubleshooting. It also supports batch upgrading based on AP locations, models, versions, and other similar information. Upgrades can be scheduled autonomously, allowing for automatic network maintenance.

Specifications

Models	VAP6356A
Dimensions	239mm*195mm*83mm
Weight	2000g
Interface	1*10/100/1000M adaptive WAN port Gigabit SFP optical Port is optional 1*console USB serial port Reset button
Antenna	4*integrated directional antenna External antenna is optional 2.4G antenna gain≥11dBi; 5G antenna gain≥12dBi
MIMO Streams	2.4GHz: 2x2 5GHz: 2x2
Max Data Rates	600Mbps
Power Supply	PoE: 802.3af/at
Standards	IEEE802.11a/b/g/n 2.4GHz&5GHz
Power consumption	16W(max)
Max Tx Power	2.4G：27dBm 5GHz：26dBm Subject to local regulations
Frequency	IEEE802.11b/g/n:2.4000GHz~2.4835GHz； IEEE802.11a:5.15~5.25GHz;5.25~5.35GHz;5.47-5.725GHz;5.725~5.85GHz； Applicable to country/area restrictions
Channel	America/Canada:1-11, Europe (ETSI X30) :1-13, Japan X41:1-13 5GHz depends on the configured regulatory area: 36~165
Adjustment	802.11b:BPSK,QPSK,CCK； 802.11a/g/n:BPSK,QPSK,16-QAM,64-QAM
Protection Degree	IP67
Operating Temperature	-40℃~65℃
Operating Humidity	10%~90% non-condensing
Load Balance	Support the load balance based on AP traffic and users
Probe	Support
QOS	Support bandwidth control based on users, role, time, location, etc.
Forwarding Mode	Support local forwarding and Central forwarding
Band steering	Support
IPV6	Support
Soft GRE	Support
User Management	Support Web, CLI, SSH user management
Alerts	Support AP status alerts

RF	Auto and manual channel adjustment
	Adjustable power output
	Support seamless roaming
AP access	Broadcast discovery
	DHCP Option 43
	DNS domain discovery
	Access across Internet and VPN remotely
Security	802.1X authentication
	Facebook authentication
	Google authentication
	SMS authentication
	Senseless authentication
	No authentication
	White and black list
	User isolation
	Wireless intrusion detection
	Detect and prevent rogue AP
	Role-based user rule
	Bandwidth control
Access control	IP-based filtering
	MAC-based filtering
	Protocol-based filtering
	Port-based filtering
Statistics	Statistics of access history
	Statistics of locations
	Network state, the online time of AP and users
Protocol	PPPoE, static IP, DHCP
	DHCP Server
	NAT
	DNS agency
Wireless optimization	Limit low-speed client connection
	Limit number of SSID clients connection
Configuration management	Support Web, CLI, SSH user management