

VAP6656A Outdoor Access Point



Designed with enterprise-grade requirements in mind, VAP6656A is a 2x2 MU-MIMO 802.11ac wave2 access point with concurrent dual-band radios supporting two spatial streams and a data rate of up to 1167Mbps. With its built-in TxBF feature, VAP6656A is perfect for high density outdoor environments, such as stadiums, universities and enterprise campuses. VAP6656A is the best choice for medium size school campuses, parks and bus stations. 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	VAP6656A
Dimensions	239mm*195mm*83mm
Weight	2500g
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	1167Mbps
Power Supply	PoE: 802.3af/at
Standards	IEEE802.11a/b/g/n/ac wave2 2.4GHz&5GHz
Power consumption	15W(max)
Max Tx Power	2.4G : 24dBm 5GHz : 24dBm Subject to local regulations
Frequency	IEEE802.11b/g/n:2.4000GHz~2.4835GHz ; IEEE802.11a/ac: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/ac:BPSK,QPSK,16-QAM,64-QAM,256-QAM
Protection Degree	IP67
Operating Temperature	-40°C~65°C
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	<ul style="list-style-type: none"> Auto and manual channel adjustment Adjustable power output Support seamless roaming
AP access	<ul style="list-style-type: none"> Broadcast discovery DHCP Option 43 DNS domain discovery Access across Internet and VPN remotely
Security	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> IP-based filtering MAC-based filtering Protocol-based filtering Port-based filtering
Statistics	<ul style="list-style-type: none"> Statistics of access history Statistics of locations Network state, the online time of AP and users
Protocol	<ul style="list-style-type: none"> PPPoE, static IP, DHCP DHCP Server NAT DNS agency
Wireless optimization	<ul style="list-style-type: none"> Limit low-speed client connection Limit number of SSID clients connection
Configuration management	<ul style="list-style-type: none"> Support Web, CLI, SSH user management