

## VAP7616B Ceiling Access Point



Designed with enterprise-grade requirements in mind, VAP7616B 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, VAP7616B is perfect for high density environments such as classrooms, meeting rooms and enterprise campuses. Both access points 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	VAP7616B
Dimensions	148mm*148mm*27mm
Weight	500g
Interface	1*10/100/1000M adaptive WAN port 1*10/100/1000M adaptive LAN port Factory default reset, recessed DC Power jack Product security lock hole
Antenna	4*integrated omnidirectional antenna, 2x2MIMO; 2.4G antenna gain $\geq 2.5$ dbi; 5G antenna gain $\geq 3.5$ dbi
MIMO Streams	2.4GHz: 2x2 5GHz: 2x2
Max Data Rates	1167Mbps
Power Supply	12V DC 2.0A PoE: 802.3af/at
Standards	IEEE802.11a/b/g/n/ac wave2 2.4GHz&5GHz
Power consumption	7W(max)
Max Tx Power	2.4G : 21dBm 5GHz : 21dBm 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
Operating Temperature	0~45°C
Storage Temperature	-20°C~60°C
Operating Humidity	5%~95% 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"> <li>Auto and manual channel adjustment</li> <li>Adjustable power output</li> <li>Support seamless roaming</li> </ul>
AP access	<ul style="list-style-type: none"> <li>Broadcast discovery</li> <li>DHCP Option 43</li> <li>DNS domain discovery</li> <li>Access across Internet and VPN remotely</li> </ul>
Security	<ul style="list-style-type: none"> <li>802.1X authentication</li> <li>Facebook authentication</li> <li>Google authentication</li> <li>SMS authentication</li> <li>Senseless authentication</li> <li>No authentication</li> <li>White and black list</li> <li>User isolation</li> <li>Wireless intrusion detection</li> <li>Detect and prevent rogue AP</li> <li>Role-based user rule</li> <li>Bandwidth control</li> </ul>
Access control	<ul style="list-style-type: none"> <li>IP-based filtering</li> <li>MAC-based filtering</li> <li>Protocol-based filtering</li> <li>Port-based filtering</li> </ul>
Statistics	<ul style="list-style-type: none"> <li>Statistics of access history</li> <li>Statistics of locations</li> <li>Network state, the online time of AP and users</li> </ul>
Protocol	<ul style="list-style-type: none"> <li>PPPoE, static IP, DHCP</li> <li>DHCP Server</li> <li>NAT</li> <li>DNS agency</li> </ul>
Wireless optimization	<ul style="list-style-type: none"> <li>Limit low-speed client connection</li> <li>Limit number of SSID clients connection</li> </ul>
Configuration management	<ul style="list-style-type: none"> <li>Support Web, CLI, SSH user management</li> </ul>