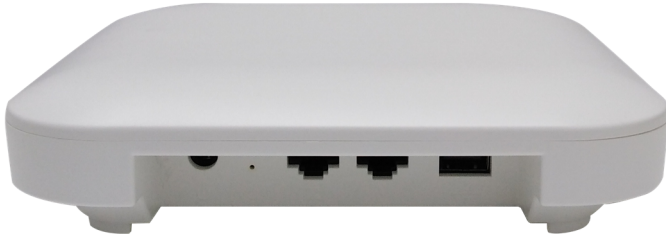


# VAP7615A 802.11ac Wave2 Ceiling Access Point



## High Performance Dual Band 11ac 2x2:2

ABLOOMY VAP7615A is a highly reliable, high-performance 802.11ac wave2 AP product for high-density enterprise wireless LAN applications. Built-in 2x2MIMO antenna, the overall rate can reach up to 1167Mbps, provide wireless access rate more than 3 times that of traditional 802.11n network, with MU-MIMO and TxBF function, can support data communication with multiple WiFi terminal devices at the same time, the coverage of the antenna can reach inside the room and obtain the best coverage effect. The VAP7615A product has a simple and beautiful appearance, simple installation, and is suitable for various installation methods such as wall hanging and ceiling.

## Features

### 802.11ac wave2 High Performance

VAP7615A supports MU-MIMO and TxBF, 2.4G communication band can support 300Mbps transmission rate, 5G communication band can support up to 867Mbps communication rate, the overall rate can reach up to 1167Mbps. Built-in high gain antenna can effectively improve data transmission efficiency and strong anti-interference ability, to avoid data loss caused by unstable wireless signals in complex environments.

### Smart RF Management

Supports automatic intelligent adjustment of power according to the RF environment. Automatically increase or decrease the RF power to achieve automatic detection and compensation of the coverage area; supports automatic/manual channel selection to ensure that the AP is in the best RF environment and provides users with the best Wireless access quality.

### Multiple Safe and Easy methods of Authentication

VAP7615A supports a variety of flexible, safe, and easy-to-use user authentication methods, combined with ABLOOMY's VSM to achieve authentication methods such as 802.1X, Portal, SMS, WeChat, and QR code

authorization. It meets the authentication requirements in various application scenarios such as hotels, schools, shopping malls, enterprises, and finance.

### Powerful Security Function

Built-in firewall and VPN function, support filtering function based on MAC address, IP address, protocol, port, support 802.11i security standard, effectively protect the security of the network.

### Intelligent load balancing

Support AP-based user access, traffic, channel load balancing, and the system automatically guides users to the 5GHz frequency band by default, which maximizes network capacity and ensures the user's best access experience. Innovative support for intelligent load balancing technology ensures that the load balancing function is activated only for wireless users in the coverage overlap area, effectively avoiding the occurrence of false balancing, thereby maximizing the wireless network capacity.

## Flexible deployment

VAP7615A fully supports plug-and-play installation and deployment, regardless of the complexity of the network environment of the device, whether the device is deployed on the public or private network, as long as the device can be accessed by ABLOOMY's local AC or VSM, the system can automatically complete the AP device Configuration to achieve fast network delivery.

## Hardware Specification

|                       |  |
|-----------------------|--|
| Dimension             | 160.0 x 160.0 x 35.0mm   |
| Weight                | 300g   |
| Interface             | 2 个 10/100/1000M adaptive WAN port<br>Reset Button : Factory Reset<br>DC Power jack port<br>1 USB2.0 port  |
| Antenna               | Omni antenna, 2x2MIMO;<br>2.4G antenna gain : $\geq 3$ dBi;<br>5G antenna gain : $\geq 3$ dBi  |
| Power Supply          | 12V DC 2.0A<br>PoE: 802.3af  |
| LED                   | Power : White<br>WAN : Red , Blinking mode<br>WLAN : Blue , Blinking mode  |
| Power Consumption     | $\leq 10$ W  |
| Max Tx Power          | 2.4G : 20dBm<br>5GHz : 20dBm<br>Subject to local regulations   |
| Frequency             | IEEE802.11b/g/n:2.4000GHz~2.4835GHz ;<br>IEEE802.11a/ac:5.15~5.25GHz;5.25~5.35GHz;5.47-5.725GHz;5.725~5.85GHz ;<br>Applicable to country/area regulations  |
| Channel               | America/Canada:1-11、 Europe ( ETSI X30 ) :1-13、 Japan X41:1-13 ;<br>5GHz Channel : depend on the regulatory of the country/area  |
| Throughput            | 802.11n ( HT ) support : HT20/40<br>802.11ac ( VHT ) support : VHT20/40/80   |
| RF Modulation         | OFDM : BPSK@6/9Mbps、 QPSK@12/18Mbps、 16-QAM@24Mbps、 64-QAM@48/54Mbps<br>DSSS : DBPSK@1Mbps、 DQPSK@2Mbps、 CCK@5.5/11Mbps<br>MIMO-OFDM ( 11n ) : MCS 0-15<br>MIMO-OFDM ( 11ac ) : MCS 0-9  |
| Adaptive Modulation   | 11b : DSS : CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps<br>11a/g : OFDM:64QAM@48/54Mbps, 16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps<br>11n : MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM<br>11ac : MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM,256QAM |
| Installation          | Ceiling mounting bracket (provided with AP)  |
| Operating Temperature | -0~50°C  |
| Storage Temperature   | -20°C~60°C   |
| Operating Humidity    | 0%~90% non-condensing  |

## IT Automated O&M

Support network-based detection, real-time monitoring and alarm alert based on AP system status, help to quickly locate AP faults; support batch upgrades based on AP location, model, version, etc., and can set the upgrade time arbitrarily, to achieve automated network O&M

## Software Specification

|   |  |
|---|--|
| WLAN  | Comply with IEEE801.11a b/g/n/ac/ac standard   |
|   | Support dynamic rate adjustment  |
|   | Support channel automatic scanning and manual selection                                    |
|   | Support dynamic and manual power adjustment  |
|   | Support intelligent roaming function   |
|   | Support ShortGI in 20M, 40M, 80M mode  |
|   | Support WMM to realize application-based data processing and forwarding functions          |
|   | Support 5G access priority function  |
|   | Support load balancing based on AP traffic, frequency band and number of users             |
|   | Support Hotspot 2.0  |
|   | Support Open-system Authentication method  |
| Security  | 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, WeChat Authentication method                                  |
|   | Support data traffic local forwarding and centralized forwarding                           |
| Network   | Support under same SSID user isolation   |
|   | Support user access ( 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 local forwarding mode, when AP is disconnected from AC, no interruption on service |
|   | Support selection of main server and two backup servers (CSP + VSM in distributed mode)    |
|   | Support DHCP Server, client obtains IP address through the AP                              |
|   | Support Static IP/DHCP/PPOE, WAN connection methods  |
|   | Support IPV6   |
|   | Support Soft GRE   |
|   | Support VPDN   |
| Support cloud service mode deployment (ACS + VAP) |  |
| Management  | Support AC centralized and unified management  |
|   | Support Web User Management (HTTP)   |
|   | Support CLI (SSH) management   |
|   | Support console-based management   |
|   | Support remote modification of AP login password   |
|   | Support AP automatically go online and load configuration (PnP)                            |
|   | Support LED light control  |
|   | Support periodic automatic restart of the device   |
|   | Support batch modification of AP management platform address                               |
|   | Support batch upgrade based on AP location, AP model, AP version                           |
|   | Support AP status alarm  |