GAP56B Gateway AP
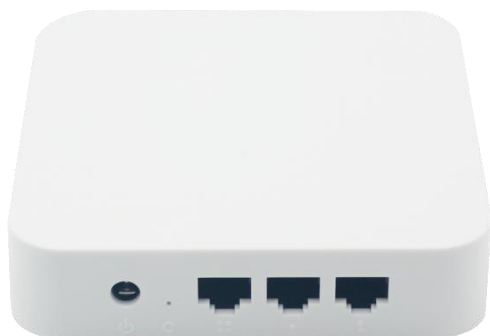
GAP56B, a gateway AP with multiple functions dedicated for small-and-medium stores, is from ABLOOMY Technologies Inc. (ABLOOMY)'s self-led research and development. Taking wired and wireless network, VSM is equipped with an uplink port connecting Internet, 2* Ethernet ports and 802.11b/g/n port which supports 300Mbps transmission rate. GAP56B support both gateway function and 802.11b/g/n client accessing.

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.

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	GAP56B
Dimensions	117mm x 117mm x 26mm
Weight	150g
Interface	1*10/100Base-Tx WAN/LAN port 2*10/100Base-Tx LAN port 1* reset button
Antenna	Internal 2 omnidirectional antenna 2.4G antenna gain≥2dBi;
MIMO Streams	2.4GHz: 2x2
Max Data Rates	300Mbps
Power Supply	DC 12V
Standards	IEEE802.11a/b/g/n
Power consumption	4W(max)
Max Tx Power	2.4G：20dBm Subject to local regulations
Frequency	IEEE802.11b/g/n:2.4000GHz~2.4835GHz；
Channel	America/Canada:1-11, Europe (ETSI X30) :1-13, Japan X41:1-13
Adjustment	802.11b:BPSK,QPSK,CCK； 802.11a/g/n:BPSK,QPSK,16-QAM,64-QAM
Operating Temperature	0℃~45℃
Operating Humidity	5%~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
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