

## WLAN Controller



WC-256 is an middle size Enterprise Gateway based on CAPWAP protocol. The Gateway supports Load Balance, Ethernet backup and Ethernet Superimposed, multi-ISP access. It supports DHCP, policy based routing and VPN, together with Smart flow control, Abundant security, varied user management and multiple authentication function. Suitable to provide high efficiency and professional network connectivity for hotels, enterprise, Internet bar, shopping mall. What's more, it can manage the wireless access point fast and stable in central and remote, provide whole wireless coverage solution, cost saved and convenient.

### KEY FEATURES

#### Multiple Gigabit WAN and multiple routing functions

WC-256 support PPPoE/DHCP/Static IP access for the WAN Ports, it can be used to work with different ISP and can support up to 128 end users.

The controller supports multiple Gigabit WAN ports, support load balance, Ethernet Superimposed and multiple ISP network access to avoid bandwidth overload, then support Ethernet backup to recover the dropped networking line, ensure the whole networking smoothly; It supports policy-based routing function, the administrator can set the network based on IP/MAC/Domain/Interface policies.

#### Smart QoS

WC-256 support smart QoS based on ports, individual users, user groups and user applications. Allow bandwidth reservation and dispatch by tunnel or by application.

It provides a variety of functions including multiple queuing mechanisms (priority queuing, low latency queuing, custom queuing, weighted queuing), congestion avoidance, traffic policing, traffic shaping and priority marking, ensuring different service for different users and applications.

#### Abundant security mechanism

WC-256 support a variety of security mechanism, like TCP/UDP/ICMP Flooding, IP/MAC/URL/Web -filtering functions, Ping of Death and other related threats, extend protection to every port of the router and enable the ports to provide DoS/DDoS attack protection, traffic monitoring, Uniform Resource Locator (URL) filtering, and application layer filtering.

What's more, it supports user management and password protection. Users of different privileged levels are assigned with different configuration authorities.

#### Multiple authentication

WC-256 support portal authentication, PPPoE authentication and RADIUS authentication

It supports WeChat authentication, one-time password authentication, display or promote advertisement to user and bring extra value for merchant; Then support SMS authentication when access into cloud server and work with SMS gateway.

It can work with the 3rd party RADIUS server for advertisement and billing functions.

It can also work as PPPoE server, can create PPPoE account, password, bandwidth and valid time, to realize PPPoE billing function.

### Remote Maintenance, Auto firmware upgrade

Administrator can access into WC-256's management interface page remotely at home, to manage and maintenance the wireless access point, keep the whole network stable in economic way.

WC-256 can automatically upgrade the new released firmware, zero steps to recovery the system problem.

### Others

WC-256 support VPN dial up, DNS Proxy, IP address translation, user behavior management, make it more professional in various deployment scenarios..

## AC MANAGEMENT FOR WIRELESS AP

### Assign IP address for Wireless AP:

Build in DHCP Server, it can assign the IP address for wireless AP automatically when AP online.

### Group or Single Configure:

WC-256 auto detects the wireless AP, support group or single configuration, central to manage the SSID password, mode, channel, RF power, coverage threshold, reboot, reset or upgrade firmware remotely to complete the maintenance.

## PRODUCT SPECS

MODEL	: WC-256
PROTOCOL	: IEEE 802.3, 802.3U, 802.3AB TCP/IP, DHCP, ICMP, NAT, PPPOE, SNTP, HTTP, DDNS, IPSEC, PPTP, L2TP, CAPWAP PROTOCOL
CPU	: MT7621
DDR	: 256M
FLASH	: 16M
HEAT DISSIPATE	: Super silent ball fan
PORTS	: 4 × 10/100/1000MBPS LAN PORTS (CAN SET TO WAN PORT) 1 × 10/100/1000MBPS WAN PORT
POWER	: AC:100-240V,50HZ
DIMENSION	: 440MM*240MM*44MM
WORKING TEMPERATURE	: -20℃~55 °C
STORAGE TEMPERATURE	: -40℃ ~ 70℃
WORKING HUMIDITY	: 5% ~ 97%RH (NO CONDENSATION)

## FIRMWARE FEATURES

<b>AP Management</b>	: Max to access and manage 128 users Max to manage 32 Wireless AP Centrally and remotely to manage/configure wireless AP View user's status
<b>Smart Flow Control</b>	: One click smart flow control Powerful multiline diversion Application Priority Automatically
<b>Load Balance</b>	: Multiple WAN, multiple ISP network access Intelligence load balance Ethernet line backup (Failover) Ethernet Superimposed Policy routing: based on IP address, destination IP address, source MAC address, network port, domain, destination port, Extranet port, Identity binding, Protocol binding
<b>Routing</b>	: Static Routing
<b>Behavior Management</b>	: All-round to block P2P firmware P2P flow control and bandwidth allot File and URL filter Monitor network behavior at all times
<b>Bandwidth Limitation</b>	: IP-based bandwidth limitation Safeguard / Restrict bandwidth Time strategy IP based session restriction
<b>Security Center</b>	: MAC address filter UPR/key words filter Web content filter IP address filter Port mapping DMZ
<b>Defense Center</b>	: TCP/UDP/ICMP flood defense Block TCP scanning Block ping WAN port
<b>ARP Detection</b>	: Send GARP packets ARP Scanning on WAN/LAN port Online detection IP-MAC binding
<b>Authentication</b>	: PPPoE authentication Portal authentication like WeChat Authentication, WEB password authentication, One-time password authentication, SMS authentication RADIUS authentication: work with the 3rd party RADIUS server

## FIRMWARE FEATURES

**Management** : Web/CLI/Telnet management  
Remote management

**Others** : DDNS, VPN management

**Content** : WC-256 \* 1  
Power Cable \* 1  
Installation Accessory  
Quick Installation Guide \* 1