OVERVIEW

AC520 is a big size Enterprise Gateway based on **CAPWAP** protocol. Support Load Balance, Ethernet backup and Ethernet Superimposed, multi-ISP access; then support DHCP, policy routing and VPN, together with Smart flow control, Abundant security, varied user management and multiple authentication function, it consistent to provide high efficiency and professional network connectivity for hotel, school, hospital, 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.

FEATURES

❖ **Multiple Gigabit WAN and multiple routing functions**
  o **AC520** support PPPoE/DHCP/Static IP access, work with different ISP and max **512 end** users can access into it.
  o Support 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;
  o It supports policy-based routing function also; administrator will set the network based on IP/MAC/Domain/Interface policies.

❖ **Smart QoS**
  o **AC520** support smart QoS based on ports, individual users, user groups and user applications. Allow bandwidth reservation and dispatch by tunnel or by application.
  o 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**
  o **AC520** 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.
  o What's more, it supports user management and password protection. Users of different levels are assigned with different configuration authorities.

❖ **Multiple authentication**
  o **AC520** support portal authentication, PPPoE authentication and Radius authentication
  o 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.
  o Then it can work with the 3rd party radius server for advertisement and billing functions. What's more, it works as PPPoE server, can create PPPoE account, password, bandwidth and valid time, to realize PPPoE billing function.

❖ **Remote Maintenance, Auto firmware upgrade**
- o Administrator can access into **AC520**'s management interface page remotely at home, to manage and maintenance the wireless access point, keep the whole network stable in economic way.
- o **AC520** can automatically to upgrade the new released firmware, zero steps to recovery the system problem.

❖ **Others**
- o **AC520** support WAN port VLAN, VPN dial up, DNS Proxy, IP address translation, user behavior management, make it more professional in Enterprise.

❖ **AC management for wireless AP**
- o Assign IP address for Wireless AP: Build in DHCP Server, it can assign the IP address for wireless AP automatically when AP online.
- o Group or Single Configure: **AC520** auto detect the wireless AP, support group or single configuration, central to manage the SSID password, mode, channel, RF power, coverage threshold; Then reboot, reset or upgrade firmware remotely to complete the maintenance.
- o

TECHNICAL SPECIFICATION

XENTINO AC520	
Interface Characteristics	
Fixed Port	5 x 10/100/1000Mbps LAN ports (can set to WAN port) 1 x 10/100/1000Mbps WAN port 2 x USB2.0 Ports 1 x Console Port
Chip Parameter	
Protocol	IEEE 802.3, 802.3u, 802.3ab TCP/IP, DHCP, ICMP, NAT, PPPoE SNTP, HTTP, DDNS, IPsec, PPTP, L2TP, CAPWAP Protocol
CPU	Intel D525
DDR	2GB (MICRON)
SSD	32GB
Power	
Power	AC:100-240V,50HZ
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~97% RH Non condensing
Storage TEMP / Humidity	-40~+70°C, 5%~97% RH Non condensing
Dimension	440*240*44mm (L*W*H)
Certification & Warranty	
Warranty	2 years, lifelong maintenance.
Network Management Features	

AP Management	Max to access and manage 512 users Max to manage 128PCS wireless AP Centrally and remotely to manage/configure wireless AP View user's status
Smart Flow Control	One click smart flow control Powerful multiline diversion Application Priority Automatically
Load Balance	Multiple WAN, multiple ISP network access Intelligence load balance Ethernet line backup 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
Routing	Static Routing
Behavior Management	All-round to block P2P firmware P2P flow control and bandwidth allot File and URL filter Monitor network behavior at all times
Bandwidth limitation	IP-based bandwidth limitation Safeguard / Restrict bandwidth Time strategy IP based session restriction
Security Center	MAC address filter UPR/key words filter Web content filter IP address filter Port mapping DMZ
Defense Center	TCP/UDP/ICMP flood defense Block TCP scanning Block ping WAN port
ARP Detection	Send GARP packets ARP Scanning on WAN/LAN port Online detection IP-MAC binding
Authentication	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
Management	Web/CLI/Telnet management Remote management
Others	DDNS, VPN management

ORDERING INFORMATION

Model	Description
AC520	AC520 Enterprise Load Balance Gateway WLAN Controller

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	AC520 Enterprise Load Balance Gateway WLAN Controller
1	SET	Power Cable
1	PC	User Guide
1	PC	Warranty Card

Gigabit Multi-WAN ports high-speed broadband, easy to achieve line backup, broadband overlay and strategic broadband.

Automatic discovery and unified to manage wireless AP, up to 512PCS wireless AP can be managed and 512 end user can access.

Support WEB remote management, real-time and intuitive system status view.

Unified configuration of wireless network, support SSID TAG VLAN and WLAN mapping.

Supporting MAC authentication, PPoE authentication, Captive PORTAL authentication like WeChat, WEB.