

Secure WLAN Controller WHG701

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The **4ipnet WHG501 Secure WLAN Controller** with built-in 10,000 local accounts, 6,000 on-demand accounts, and Gigabit Ethernet is an ideal security solution for medium to larger-scale WLAN deployments, including enterprises, campuses, hotels, airport terminals, and MDUs/ MTUs. The WHG701 integrates "secure access"

control", "visitor account provisioning", "flexible accounting and billing", and "centralized WLAN management" into one box to provide simplified manageability and instant mobility. With more powerful hardware, WHG701 is capable of managing up to 150 access points centrally to cover a wider service area in a larger network.

FEATURES & BENEFITS

Simplified Deployment and Reliable Internet Connection

- Gigabit Ethernet to meet higher data rate demands of larger networks.
- Easy to deploy, highly scalable platform allows overlay with existing wired/wireless infrastructure without disruption.
- Load balancing and WAN failover enhance bandwidth utilization and provide more reliable Internet connection.

Powerful Network Security Capabilities

- Standards-based data encryption: WEP, WPA, WPA2, IEEE 802.1X, and IPSec VPN.
- Secure guest and administrator access using web-based login and administration over SSL.
- Diverse user authentication methods, including built-in Local and On-demand database; supports external authentication servers including POP3, LDAP, RADIUS, Windows Domain, and SIP registrar.
- Built-in DoS protection keeps malicious hackers from collapsing the network.
- Site-to-site VPN tunnels allow branch offices to securely connect with one another and share the same account database.

Comprehensive Access Control and User Management

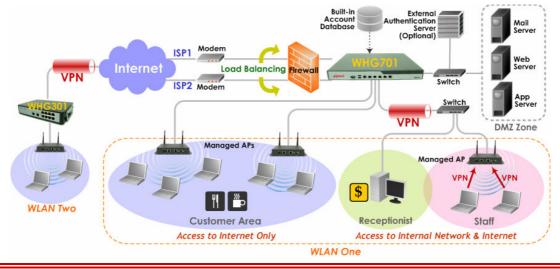
- Role-based access control and policy enforcement offer management of privileges for different user groups.
- On-demand account generation provides secure and managed user accounts to visitors.
- Service Zone function partitions a physical network into up to 9 virtual networks, each with its own definable access control and group policy profiles. Allows hotspot owners to provide various levels of customized services.
- Individual user bandwidth limit enables flexible traffic control for different scenarios.

Centralized Access Point (AP) Management

- Centralized remote control and automatic AP discovery.
- Management and monitoring of managed APs via web-based administration interface, including AP's system settings, online status, enabling/disabling, reset, and firmware upgrade.
- Periodically monitors APs and notifies the administrator of problematic APs.

Flexible Accounting and Billing

- Configurable billing profiles allow operators to customize billing plans for on-demand users.
- Support online payment with credit card through Authorize.net and PayPal.



Networking

- ➤ Support NAT or Router mode
- Support Static IP, DHCP, PPPoE mode on WAN interfaces and PPTP (WAN 1 only)
- Choose freely which LAN is authentication-enabled LAN
- Support NAT:
 - (1) IP/Port destination redirection
 - (2) DMZ server mapping
 - (3) Virtual server mapping
 - (4) H.323 pass-through
- ➤ Built-in with DHCP Server and support DHCP relay
- Support walled garden (free surfing zone)
- > Support MAC-address and IP-address pass-through
- Support HTTP Proxy
- > Support IP Plug and Play (IP PnP)
- Support configurable static routes
- Contain built-in hardware-based VPN accelerator
- Support dual uplinks, outbound load balancing and failover for more reliable Internet connection
- > Support SIP pass-through NAT

Security

- Support data encryption: WEP(64/128-bit), WPA, WPA2, IPSec VPN
- Support various authentication methods: WPA-PSK, WPA2-PSK, IEEE 802.1X (EAP-MD5, EAP-TLS, CHAP, PEAP)
- ➤ Support local IPSec VPN tunnels
- ➤ Support PPTP VPN tunnels
- ➤ Support site-to-site VPN tunnels
- > Support VPN pass-through (IPSec and PPTP)
- > Built-in DoS attack protection

Service Zones

- ➤ The network is divided into maximum 9 Service Zones, each defined by a pair of VLAN tag and ESSID
- Each service zone has its own (1) login portal page (2) redirected home page (3) authentication options (4) LAN interface IP address (5) DHCP address range
- ➤ Each service zone allows access to the selected groups
- > Each service zone assigns a network policy to each user group

User Management and Access Control

- ➤ Support 10,000 local accounts and 6,000 on-demand accounts
- Provide on-demand accounts for visitors
- > Support Local user account roaming
- Authentication methods supported: Local and On-demand accounts, POP3, LDAP, RADIUS, Windows Domain, and SIP authentication
- ➤ Single-Sign-On for Windows Domain
- Allow MAC address and user identity binding for local user authentication
- ➤ Support MAC Access Control List
- Support auto-expired guest accounts
- Users can be divided into user groups, each user group has its own network properties, including bandwidth, QoS, accessible service zones, and other privileges
- Support QoS and WMM traffic types: Voice, Video, Best Effort and Background
- Each group (role) may get different network policies in different service zones
- ➤ Max concurrent user session (tcp/udp) limit
- A setting for user-idle-timeout
- Configurable user Black List
- Export/Import local users list to/from a text file
- ➤ Definable session limit in policy puts a cap to each user's concurrent sessions (tcp/udp)

Accounting and Billing

- > Support local on-demand and external RADIUS server
- Contain 10 configurable billing plans for on-demand accounts
- Support credit card billing system by Authorize.net and PayPal
- ➤ Provide session expiration control for on-demand accounts
- Provide detailed per-user network traffic history for both local and on-demand user accounts
- > Support automatic e-mail to report network traffic history

System Administration

- > Support web-based management user interface
- Provide customizable login and logout portal page
- > SSH remote management
- Remote firmware upgrade
- ➤ NTP time synchronization
- > Menu driven console management interface
- ➤ Utilities to backup and restore the system configuration

Monitoring and Reporting

- > Status monitoring of on-line users
- > IP-based monitoring of network devices
- Uplink (WAN) connection failure alert
- > Support Syslog for diagnosis and troubleshooting
- ➤ User traffic history logging
- Traffic history report via email to administrator
- ➤ Users' session log can be sent to ftp or Syslog server

AP Management

- Number of managed APs: 150
- Provide centralized remote management via HTTP/SNMP interface
- ➤ Auto discovery for managed APs
- ➤ Enable or disable APs easily via user interface
- > Templates for managed APs
- ➤ Monitoring managed AP for its status, the number of associated clients, and RF information
- Upgrade managed APs centrally, including bulk upgrade
- ➤ Monitor 3rd party non-integrated AP: 400

Physical and Power

- ➤ Power Adapter: 90~264 VAC, 47~63 Hz
- ➤ Form Factor: 19" 1U Rack Mount
- ➤ Dimensions (W x D x H): 431 mm x 361 mm x 44.4 mm
- ➤ Weight: 7.2 kg

Connectors and Display

- ➤ WAN Ports: 2 x 10/100/1000 BASE-T RJ-45
- ➤ LAN Ports: 4 x 10/100/1000 BASE-T RJ-45
- ➤ Console Port: 1 x RS-232 DB9
- ➤ LED Indicators: 2 x WAN status, 4 x LAN status

Environment

➤ Operating Temperature: 0 ~ 40 °C

Certifications

- ➤ CE, FCC
- ➤ RoHS compliance