



The increasing number of traveling workers and mobile users, coupled with the marketing demands to facilitate customers with more value-added

services in today's competitive business world, are driving the trend toward wireless Internet access in public locations – whether in coffee shops, bookstores, hotel lobbies, convention centers, or airport terminals. The **4ipnet Wireless Hotspot Gateway WHG101 with built-in access point** is designed to provide an easy-to-use, all-in-one solution for secure, manageable, and high-speed wireless Internet access.

The dual-mode 802.11b/g WHG101 can immediately achieve compatibility with existing network configurations, and furthermore, hotspot operators can add additional switches and access points to expand wireless coverage based on their deployment requirements. The WHG101 integrates **“secure access control”**, **“visitor account provisioning”**, and **“high-speed secure wireless connection”** into one box to fulfill the needs demanded by a public wireless network.

FEATURES & BENEFITS

Easy Installation and Operation

- Supports various broadband deployment options (T1, DSL, Cable) via static IP, DHCP, PPPoE, and PPTP
- Integrated access point enables Wi-Fi access and eliminates the need for additional device
- Built-in user database provides sufficient account capacity for different operation scenarios
- Works with instant account generator to provide user accounts for visitor-based, on-demand operations

Integrated Security Features

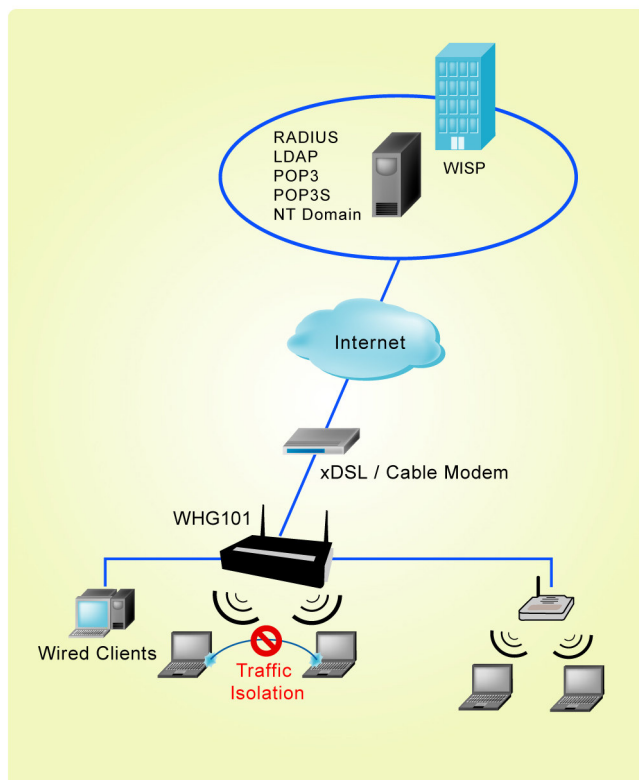
- Standards-based data encryption and user authentication: WEP, WPA, IEEE 802.1x
- Secure guest and administrator access using web-based login and administration over SSL
- Configurable packet filtering policies enhance data traffic security
- Built-in DoS protection keeps malicious hackers from collapsing the network

Effective User Management

- Complete authentication mechanism blocks unauthenticated users from access to the network
- Role-based and policy-based control policies enhances the protection against malicious users
- “On-line user list” monitors real-time status of each individual user
- Allows session expiration control for guest/on-demand users by time and data volume

Flexible Accounting and Billing

- Programmable billing profiles allow operators to customize the billing plans for on-demand users
- Bandwidth control enables class of service for different levels of users and maximize profits
- Detailed per-user traffic history log for analysis and record keeping
- Billing report gives a summary of transaction records for on-demand users



Networking

- Supports Router, NAT mode
- Supports static IP, DHCP, PPPoE, PPTP Dial-up
- Controllable LAN ports requiring authentication
- Supports IP Plug and Play (IP PnP)
- Supports Inter-subnet roaming
- Built-in DHCP Server and support for DHCP relay
- Supports NAT:
 - (1) IP/Port Destination Redirection
 - (2) DMZ Server Mapping
 - (3) Virtual Server Mapping
- Configurable static route
- Supports SMTP redirection
- Supports Walled Garden (free surfing zone)
- Supports MAC Address Pass-Through
- Supports HTTP Proxy
- Throughput: 90 Mbps

Security

- Supports data encryption: WEP (64/128-bit), WPA
- Supports authentication: WPA-PSK, IEEE 802.1x (EAP-MD5, EAP-TLS, CHAP, PEAP)
- Supports VPN Pass-Through (IPSec and PPTP)
- Supports DoS attack protection
- Supports Layer 2 isolation
- Supports MAC Access Control List
- Configurable user Black List
- Allows MAC address and user identity binding for local user authentication

User Management

- Supports up to 50 concurrent users
- Supports 500 local accounts
- Supports 2,000 on-demand accounts
- Provides guest accounts
- Supports 5 sets of black list with 40 entries in each black list
- Simultaneous support for multiple authentication methods (Local and On-demand accounts, POP3(S), LDAP, RADIUS, NT Domain)
- Role-based and policy-based access control (per-role assignments based on Firewall Policies, Routing, Login Schedule, Bandwidth, Quota, and Session Time)
- User Session Management:
 - (1) SSL protected login portal page
 - (2) Supports multiple logins with one single account
 - (3) Session idle timer
 - (4) Session/account expiration control
 - (5) Friendly notification email to provide a hyperlink to login portal page
 - (6) Windows domain single sign on
 - (7) Configurable login time frame

Monitoring and Reporting

- Online status monitoring of users
- IP-based monitoring of devices
- WAN failure alert
- Syslog Information
- Supports external Syslog server
- User traffic history logging

Accounting and Billing

- Built-in billing profiles for on-demand accounts
- Enables session expiration control for on-demand accounts by time (hour) and data volume (MB)
- Provides billing reports on screen for on-demand accounts
- Detailed per-user traffic history based on time and data volume for both local and on-demand accounts
- Traffic history report in an automatic email to administrator
- Support Authorize.net credit card payment gateway
- Support PayPal payment

System Administration

- Web-based management UI
- Customizable login and logout portal page
- Support for SNMP v2
- SSH remote management
- Remote firmware upgrade
- NTP time synchronization
- Console CLI support
- Configuration file backup and restore

Wireless Radio Specifications

- Wi-Fi standard: IEEE 802.11b/g
- Wireless Interface: 1 x Atheros 802.11 b/g (11/54 Mbps)
- Field-replaceable Antenna
- Antenna Diversity

Hardware Specifications

- CPU: Intel IXP 420, 266 MHz
- Flash Memory: 32 MB
- Dynamic Memory: 64 MB
- Built-in, real-time clock to support applications such as logging and accounting that require an accurate time stamp
- Ethernet Interfaces: 5 x Fast Ethernet (10/100 Mbps)

Physical and Power

- Power: 110~240 VAC, 50/60 Hz
- Form Factor: Mini-book
- Dimensions (W x D x H): 9.6" x 6.2" x 1.8" (243 mm x 158 mm x 45.5 mm)
- Weight: 2.8 lbs (1.27 kg)

Connectors and Display

- WAN Ports: 1 x 10BASE-T/100BASE-TX RJ-45
- LAN Ports: 4 x 10BASE-T/100BASE-TX RJ-45
- Console Port: 1 x RJ-11
- LED Indicators: 1 x Power, 1 x WAN, 4 x LAN, 1 x WLAN

Environment

- Operating Temperature: 0 ~ 45 °C
- Storage Temperature: -25 ~ 55 °C

Certifications

- CE, FCC