

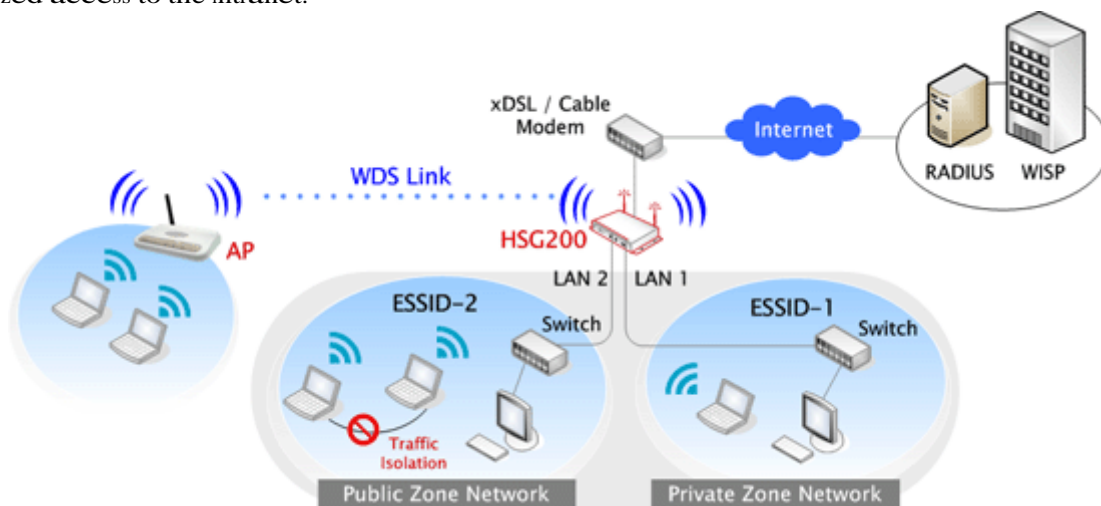


The 4ipnet HSG200 is the most economical yet feature-rich Wireless Hotspot Gateway, targeting mini-size stores who want to provide small, single-point wireless Internet access service. The HSG200 is a perfect choice for beginners to run hotspot businesses. It does not cost a fortune to buy a pile of equipment, nor does it take the skills of an expert to glue multiple applications out of multiple freeware.



Feature-packed for hotspot operation, HSG200 comes with built-in 802.11n/b/g access point, web server and web pages for clients to login, easy logo-loading for branding a hotspot store, simple user/visitor account management tool, payment plans, external credit card gateways, traffic logs, IP sharing and etc. Equipped with 4ipnet's patent-pending 4ipWES (Press-n-Connect) technology, the HSG200 is able to establish an automatic WDS link with up to 2 access points at the touch of a button. Extending wireless network coverage is a breeze. To open a hotspot store is as easy as a finger tip with HSG200 connecting to the Internet pipe via ADSL/Cable/Satellite modem. HSG200 also brings in an extra advantage - the wall-mountable, dust-proof (IP50) metal housing.

For a self-proprietor who owns one or several small shops, serving wireless Internet service is no magic via HSG200. Many auto-service shops and dental clinics find an HSG200 in service makes their customers' waiting time a breeze. Small coffee shops can offer time-based hotspot service by compliment coupons or paid by hours at ease. For small professional offices such as accounting or law firms who demand high-level network security, a standalone HSG200 enables the offices to provide managed Internet service to their clients or visitors in an isolated fashion, free of charge, while securely preventing unauthorized access to the intranet.



## FEATURES & BENEFITS

### 2.4GHz 2 x 2 MIMO Field Replaceable Antenna & Compatible with 802.11n/b/g

The antenna diversity design enhances the connection reliability to improve data transmission capability  
Two detachable antennas for optimal wireless coverage and field replacement flexibility  
Equipped with a high-speed IEEE 802.11n/b/g wireless network interface, transmission rates up to 300Mbps

### Easy Installation and Operation

Support various broadband deployment options (T1, DSL, Cable) via static IP, DHCP and PPPoE  
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  
Work on-demand account generator to provide user accounts for visitor-based, on-demand operations

### Integrated Security Features

Standard-based data encryption and user authentication: WEP, WPA, WPA2, IEEE 802.1X  
Secure guest and administrator access using web-based login and administration over SSL  
Configurable packet filtering policies enhance data traffic security  
4ipWES (Press-n-Connect) with push button enables quick/auto WDS link  
Built-in DoS protection prevents malicious hackers from collapsing the network

### Effective User Management

Complete authentication mechanism blocks unauthenticated users from gaining 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  
Allow session expiration control for On-demand users by time basis

### 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

## Networking

Support Router, NAT mode  
 Support static IP, DHCP and PPPoE on WAN interface  
 Support IP Plug and Play (IP PnP)  
 Built-in DHCP Server and support DHCP Relay  
 Support NAT:  
 (1) DMZ Server Mapping  
 (2) Public Accessible Server  
 (3) Port and IP Redirect  
 Configurable static route  
 Support email service via designated email server  
 Support Walled Garden  
 Support Walled Garden Ad List to post Advertisement website links on user login portal page  
 Support MAC Address Pass-Through  
 Support Ethernet connection to external terminal servers

## Security

Support security standards: WEP (64/128/152 bits), WPA/WPA2-PSK, IEEE 802.1X, and TKIP & AES Cipher auto negotiation  
 Support VPN Pass-Through (PPTP)  
 Support DoS attack protection  
 Support Layer 2 isolation  
 Support MAC Access Control List  
 Configurable user Black List  
 Allows MAC address and user identity binding for local user authentication

## User Management

Support 500 local accounts  
 Support 2000 on-demand accounts for visitors  
 Simultaneous support for multiple authentication methods (Local, RADIUS\*2, and On-demand)  
 Support local account roaming  
 Policy-based access control (per-role assignments based on Schedule Firewall Policies, Routing, Login Schedule, Bandwidth and Session)  
 User Session Management:  
 (1) SSL protected login portal page  
 (2) Support multiple logins with one single account  
 (3) Session idle timer  
 (4) Session and account expiration control  
 (5) Login time frame control  
 (6) Session limit  
 Import/Export local and on-demand accounts from/to a CSV file

## Monitoring and Reporting

Online status monitoring of users  
 Uplink (WAN) connection failure alert  
 Support SYSLOG server for diagnosis and troubleshooting  
 Support User Logs for traffic recording  
 Support user traffic session (TCP/UDP) logging  
 Event Log

## System Administration

Web-based management UI  
 Customizable login and logout portal page  
 SSH remote management  
 Remote firmware upgrade  
 Console management  
 NTP time synchronization  
 Backup and restore the system configuration  
 SNMP v1/v2c  
 4ipWES (Press-n-Connect) button for WDS Easy Setup

## Accounting and Billing

Provide billing plans for On-demand accounts  
 Various on-demand account types: Usage, Duration, Volume, and Hotel Cut-off  
 Session expiration control for On-demand accounts  
 Detailed per-user traffic history based on time for both local and On-demand accounts  
 Traffic history report in an automatic email to administrator  
 Support credit card payment via external payment gateway (Authorize.Net, PayPal, SecurePay, WorldPay)  
 Support RADIUS accounting  
 Support RADIUS VSA for volume-based quota of an external RADIUS server  
 On-demand account batch creation  
 Send automatic e-mail to report User Log, on-demand User Log, and Monitor IP status respectively

## Wireless Radio Specifications

Wi-Fi standard: IEEE 802.11n/b/g in 2.4GHz frequency band  
 Modulation: OFDM, DSSS, CCK  
 Wireless Interface: 1 x 802.11 n/b/g (300/11/54 Mbps)  
 2 x 5dBi detachable (SMA Connector) field-replaceable Antenna  
 RF output power: 100mW EIRP  
 Number of multiple SSIDs: 2  
 Number of WDS links: 2

## Hardware Specifications

Metal case compliant with IP50 Standard  
 WAN Port: 1 x 10/100 Base-T PoE compliant with IEEE 802.3af  
 LAN Port: 2 x 10/100 Base-T  
 Console Port: 1 x DB9  
 USB Port: 1  
 LED Indicators: 1 x Power, 1 x WAN, 2 x LAN, 1 x WLAN, 1 x Internet Connection, 1 x WES, 1 x USB

## Physical and Power

AC Input: 100~240 VAC, 50/60 Hz  
 DC Output: 12V, 1A  
 Form factor: Wall Mountable  
 Dimensions (W x D x H): 8.0" x 5.3" x 1.4"  
 (204 mm x 134 mm x 35 mm)  
 Weight: 1.5 lbs (0.69 kg)

## Environment

Operation Temperature: -30 ~ 70 °C (-22 ~ 158 °F)  
 Storage Temperature: -40 ~ 85 °C (-40 ~ 185 °F)  
 Operation Humidity: 10% ~ 80% (Non-condensing)  
 Storage Humidity: 5% ~ 90% (Non-condensing)

## Certifications

FCC, CE, RoHS compliant

## Package Contents

4ipnet HSG200 main unit x 1  
 CD-ROM (User's Manual and QIG) x 1  
 Quick Installation Guide (QIG) x 1  
 Power Adaptor x 1  
 Rubber Antenna x 2  
 Console Cable x 1  
 Ethernet Cable x 1  
 Ground Cable x 1  
 Wall Mounting Kit x 1

\*\* Specifications subject to change without notice