



The **4ipnet HSG300 Dual-Band Wireless Hotspot Gateway with Gigabit Ethernet** is designed to provide an easy-to-use targeting small-size stores who want to provide single-point wireless Internet access service. HSG300 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, HSG300 comes with **built-in 3x3 MIMO 802.11 a/b/g/n 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 HSG300 is able to establish an automatic WDS link with up to 4 access points at the touch of a button. Extending wireless network coverage is a breeze. Moreover, HSG300 is built-in with unique **Wireless Layer 2 Firewall** feature which protects the wireless clients from popular wireless attacks easily. To open a hotspot store is at finger tips with HSG300 connecting to the Internet pipe via ADSL/ Cable/ Satellite modem. HSG300 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 HSG300. Many auto-service shops and dental clinics find a HSG300 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 HSG300 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

### 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

- Standards-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 1000 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 802.11a/b/g/n (draft 2.0) in 2.4GHz/5.8GHz frequency band
- Modulation: OFDM, DSSS, CCK
- Wireless Interface: 1 x 802.11 a/b/g/n (11/54/300 Mbps)
- 3 x 5dBi(5.8GHz)/3dBi(2.4GHz) detachable (SMA Connector) field-replaceable Antenna
- RF output power: 100mW EIRP
- Number of multiple SSIDs: 2
- Number of WDS links: 4

**Hardware Specifications**

- Metal case compliant with IP50 Standard
- WAN Port: 1 × 10/100/1000 Base-T PoE compliant with IEEE 802.3af
- LAN Port: 4 × 10/100/1000 Base-T
- Console Port: 1 x DB9
- USB Port: 1 x USB 2.0
- LED Indicators: 1 × WES, 1 × USB, 1 × WAN, 4 × LAN, 1 × WLAN, 1 × Power

**Physical and Power**

- AC Input: 100~240 VAC, 50/60 Hz
- DC Output: 12V, 2A
- Form factor: wall mountable mini-book
- Dimensions (W x D x H): 8.7" x 5" x 1.6"  
(265 mm x 135 mm x 48 mm)
- Weight: 1.8 lbs (0.82 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 HSG300 main unit x 1
- CD-ROM (User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Power Adaptor (12V/2A) x 1
- Antenna x 3

\*\* Specifications subject to change without notice