



The **4ipnet HSG1200** Wireless Hotspot Gateway in 19" rack-mountable chassis is designed to provide an easy-to-use, all-in-one solution for hotspot service providers. A single HSG1200 enables a hotspot provider to service multiple hot-spot franchises in a mall area through the feature of Multiple-Service-Zone. Each service zone can have its own login skin and an independent SSID. HSG1200 is also ideal for hospitality application. For example, a hotel can use the service zone feature to separate the privileges of staff, guest, and VIP usage for accessing Internet.

The HSG1200's built-in on-demand account generation capability is easy to use by cashiers or receptionists. Each guest account is associated to a price and a usage quota, either by time or volume. Moreover, HSG1200 works with the existing RADIUS server, if central billing had been implemented by the operator.

FEATURES & BENEFITS

Easy Installation and Operation

- Y Supports various broadband deployment options (T1, DSL, Cable) via static IP, DHCP, PPPoE, and PPTP
- Y Built-in user database provides sufficient account capacity for different operation scenarios
- Y Works with instant account generator to provide user accounts for visitor-based, on-demand operations
- Y Load balancing and WAN failover enhance bandwidth utilization and provide more reliable Internet connection.

Integrated Security Features

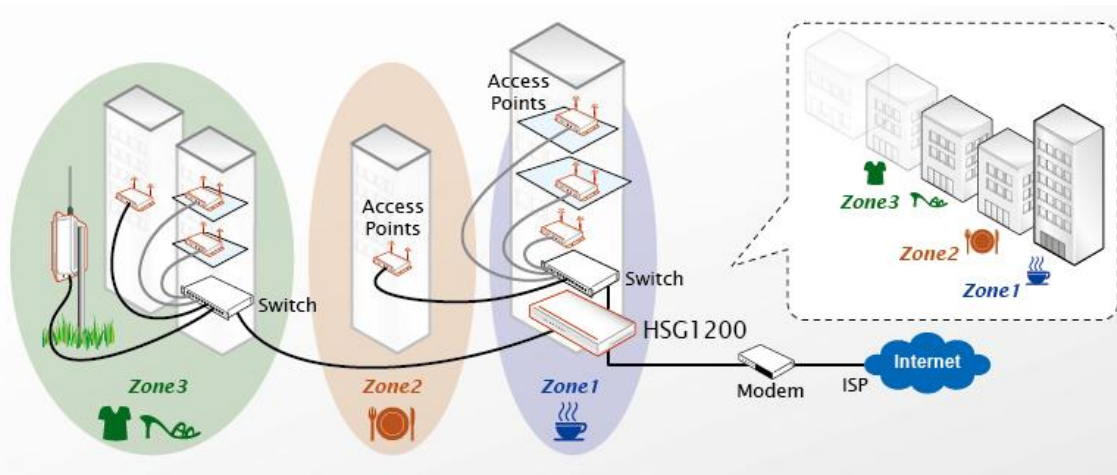
- Y Standard-based data encryption and user authentication: SSL, IEEE 802.1x, WPA-RADIUS
- Y Secure guest and administrator access using web-based login and administration over SSL
- Y Configurable packet filtering policies enhance data traffic security
- Y Built-in DoS protection prevents malicious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

Effective User Management

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

Flexible Accounting and Billing

- Y Programmable billing profiles allow operators to customize the billing plans for On-demand users
- Y Bandwidth control enables class of service for different levels of users and maximize profits
- Y 4ipnet RADIUS VSA (Vendor Specific Attributes) implementation adds flexibility for accounting and session control using RADIUS server
- Y Detailed per-user traffic history log for analysis and record keeping
- Y 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
- † Supports IP Plug and Play (IP PnP)
- † 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
- † Walled Garden Advertisement List enables Advertisement website links on login portal page
- † Supports MAC Address Pass-Through
- † Supports HTTP Proxy
- † Supports Ethernet connection to external terminal servers
- † Support dual uplinks, outbound load balancing and failover for more reliable Internet connection
- † Support SIP pass-through NAT

Security

- † Supports security standards: SSL, IEEE 802.1X and WPA-RADIUS
- † Supports VPN Pass-Through (IPSec and PPTP)
- † Supports basic DoS attack protection
- † Supports site-to-site VPN tunnel
- † Supports MAC Access Control List
- † Configurable user Black List
- † Allows MAC address and user identity binding for local user authentication

Service Zones

- † The network is divided into maximum 9 Service Zones, each defined by a VLAN tag
- † Each service zone has its own (1) login portal page, (2) authentication options, (3) LAN interface IP address, and (4) 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

- † Recommended for up to 300 concurrent users
- † Supports 3,000 local accounts
- † Supports 2,000 on-demand accounts
- † Simultaneous support for multiple authentication methods (Local and On-demand accounts, POP3, LDAP, RADIUS, NT Domain)
- † Policy-based access control (per-role assignments based on Firewall Policies, Routing, Login Schedule, Bandwidth, Quota, and Session)
- † User Session Management:
 - (1) SSL protected login portal page
 - (2) Supports multiple logins with one single account
 - (3) Session idle timer
 - (4) Session and account expiration control
 - (5) Notification email to provide a hyperlink to login portal page
 - (6) Supports Single Sign-On for Windows Domain
 - (7) Login time frame control
 - (8) Session limit

Accounting and Billing

- † Provides billing plans for On-demand accounts
- † Enables session expiration control for On-demand accounts by time (hour) and data volume (MB)
- † 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
- † Supports RADIUS VSA (Vendor Specific Attributes) implementation for traffic accounting and session control
- † Supports credit card payment via external payment gateways (Authorize.Net, PayPal, Secure Pay)
- † Supports PayPal account payment via PayPal

System Administration

- † Web-based management UI
- † Customizable login and logout portal page
- † Support for SNMP v1, v2c
- † 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

- † Online status monitoring of users
- † IP-based monitoring of devices
- † WAN connection failure alert
- † Supports external Syslog server for diagnosis and troubleshooting
- † Supports user traffic history logging
- † Supports user traffic session (TCP/UDP) logging
- † Supports local user monthly usage report

Physical and Power

- † Power Adapter: 100~240 VAC, 50/60 Hz
- † Form Factor: 19" 1U Rack Mount
- † Dimensions (W x D x H): 16.9" x 6.1" x 1.7"
(430 mm x 155 mm x 43 mm)
- † Weight: 3.3 lbs (1.5 kg)

Connectors and Display

- † WAN Ports: 2 x 10/100BASE-TX RJ-45
- † LAN Ports: 4 x 10/100BASE-TX RJ-45
- † Console Port: 1 x RS-232 DB9
- † LED Indicators: 1 x Power, 1 x Status, 2 x WAN, 4 x LAN

Environment

- † Operating Temperature: 0 ~ 40 °C
- † Storage Temperature: -20 ~ 65 °C

Certifications

- † CE, FCC
- † RoHS compliant