4ipnet®

HSG260-WTG2 Wi-Fi Hotspot Kit 2

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IP50 | Press-n-Connect 4ipWES

The **4ipnet HSG260-WTG2** is the most economical yet feature-rich **Wireless Hotspot Kit 2** targeting public hotspots where provisioning of secure and manageable Wi-Fi access with an integrated billing system is deemed the vital goal.

The HSG260-WTG2: Wireless Hotspot Kit 2 is the very solution for people without any IT background to setup wireless internet services. This solution does not require complicated equipment intertwined with bothering cables, nor does it requires difficult IT knowledge during the deployment.

The HSG260-WTG2 package comes with two major parts, namely the **HSG260 Wireless Hotspot Gateway** and the **Wireless Ticket Generator (WTG).** The WTG, as its name suggests, is used to fast-print accounts for short-term customers; while an HSG260 is a controller/ AP device that ensures a stable wireless coverage, an integrated billing system, and a secure user management environment.

Deployment of the kit is comparatively easy, due to the patented function **Terminal Auto Setup (TAS)**. The main purpose of TAS is to automatically create an encrypted wired or wireless link between the WTG and the HSG260 - simply by pressing the **TAS button** on the WTG's side panel. And the entire process takes less than 30 seconds! More importantly, except the Press and Connect capability, one 4ipnet HSG260 can support up 10 WTGs serving at 10 different locations, simultaneously.

HSG260-WTG2 now supports **QR Code-Auto Login**. The unique feature allows operators or guest to login automatically by scanning the QR Code on the on-demand account ticket printed from 4ipnet's POS Printer PRT200. The feature used any QR Code scanner on most smart, mobile devices.

For small-to-medium public hotspots (such as cafes or hotel lobbies) that demand integration of a charging process and network security, The wireless hotspot kit is definitely the most cost-effective choice with exceedingly useful features, compared with other possible solutions that could ever be though of.
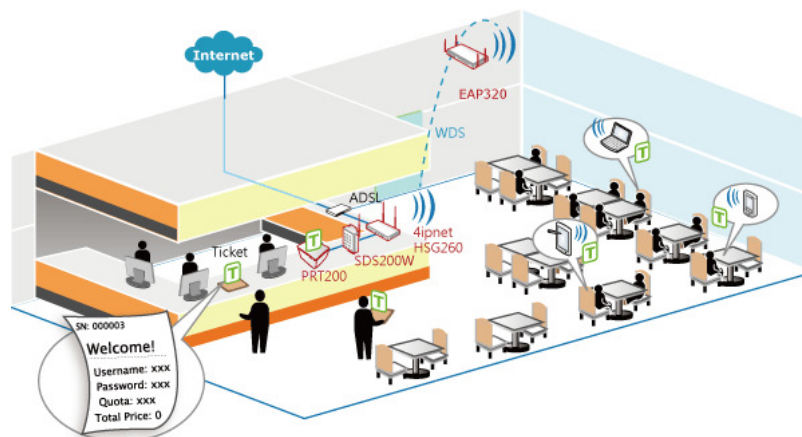
FEATURES & BENEFITS

2.4GHz 2 x 2 MIMO Field Replaceable Antenna & IEEE 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 Deployment Methods
- Support various broadband connection deployment options (T1, DSL, Cable) via static IP, DHCP, PPPoE, or PPTP.
- Integrated access point enables Wi-Fi access and eliminates the need for additional device
- Multiple authentication options (RADIUS, Free, On-demand, and Local)
- Quick Button designed to print accounts by one push of the button
- WES button extending wireless coverage by WDS or pushing AP settings automatically

Integrated Security Features
- Standard-based data encryption and user authentication: WEP, WPA, etc.
- 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 prevents malicious hackers from collapsing the network

Effective User Management
- Group, Policy, and Schedule that separates networks guests by the combination of time, Quality of service, session constraints, and other management functions.
- Complete authentication mechanism blocking unauthenticated users from gaining access to the network
- "On-line user list" monitors real-time status of each individual user

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 daily, weekly, and monthly billing reports.

QR Code Auto-Login
- Auto-Login with Mobile Smart Phone/Tablets by scanning QR Code printed on the On-demand Ticket from PRT200.

Networking

- Support IPv4 dual stack / IPv6
- Support Router, NAT mode
- Support static IP, DHCP, PPPoE , and PPTP on WAN
- 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/ Walled Garden Ad List to post avertisement website links on user login portal page
- Support MAC Address Pass-Through
- Support account roaming
- IGMP Snooping

Security

- Support security standards: WEP (64/128/152 bits) and WPA-PSK TKIP & AES Cipher auto negotiation
- Support VPN Pass-Through (PPTP)
- Support Layer 2 isolation
- Layer 2/3 Firewall (incl. DoS Protection)
- IP/ MAC/ IPv6 privilege list
- Configurable user Black List
- LAN port mapping to Private Zone and Public Zone

User Management

- Support 500 local accounts
- Support 2000 on-demand accounts for visitors
- Support multi-level administrative management
- Simultaneous support for multiple authentication methods (Local, RADIUS*2, On-demand, and Free/Trial)
- 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) Session idle timer
  (3) Session and account expiration control
  (4) Login time frame control
  (5) Session limit
- Import/Export local and on-demand accounts

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
- Http/Session/User/ Configuration Change/Traffic/... Logs

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
- Press-n-Connect 4ipWES (Wireless Easy Setup)

Accounting and Billing

- Provide billing plans for On-demand accounts
- Four On-demand account types: Usage, Duration, Volume, and Hotel Cut-off
- Support ten Wireless Ticket Generators (WTGs)
- 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, , On-Demand Billing 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) replaceable Antenna
- RF output power: up to 100mW
- Number of multiple SSIDs: 2
- Number of WDS links: 2

Hardware Specifications

- Metal case compliant with IP50 Standard
- WAN Port: 1 × 10/100/1000 Base-T
- LAN Port: 4 × 10/100/1000 Base-T
- Console Port: 1 x DB9M
- USB Port: 1
- Quick Print Button ×1 , WES Button x 1, Reset Button, x 1
- LED Indicators: 1 × Power, 1 × Status, 1 × WLAN, 1 × WAN, 4 × LAN, 1 × WES, 1 × USB

Physical and Power

- Power adaptor (included)
  A. AC Input: 100~240 VAC, 50~60 Hz
  B. DC Output: 5V, 2A
- Form factor: Wall Mountable
- Dimensions (W x D x H): 8.7" x 5.2" x 1.7" (220 mm x 130 mm x 42 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 HSG260 x 1
- 4ipnet SDS200W x1
- 4ipnet PRT200 x 1
- CD-ROM (User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Power Adaptor x 3
- Detachable Antenna x 3
- Console Cable x 2
- Ethernet Cable x 1

SDS200W Device Server

- No. of Ethernet Ports: 1x RJ-45
- Throughput: 10/100 Mbps
- Wireless Interface: IEEE 802.11 b/g/n (2.4GHz)
- Detachable Antenna : 1 x SMA connector
- Serial Standards : RS-232, DB-9M
- Baud Rate: 9600 bps
- Configuration Option : Web management
- Buttons : TAS, Reset
- Dimension: 165mm x 82mm x 25mm (L x W x H)
- Weight : 0.4kg (0.83lbs)
- Power: -AC Input: 100~240 VAC, 50~60 Hz
  - DC Output: 5V, 2A

PRT200 POS Printer

- Print Method: Thermal Line Printing
- AC Input: 100-240 VAC, 50~60 Hz
- Print Speed: 250 mm/sec
- Print Density: 576 dots/line or 512 dots/line
- Paper Width: 79.5±0.5 mm
- Interface: Serial (RS-232C)
- *Character:*
  ASCII code: 12*24 dots
  Graphic font: 24*24 dots
- Power Supply: 24 VDC / 2.5A
- Operating Temperature: 0°C ~ +45 °C
- Storage Temperature: -10°C ~ +60 °C
- Dimension: 176mm(L) x 146mm(W) x 124mm(H)
- Weight: 1.22kg

** Specifications subject to change without notice