HSG260
WIRELESS HOTSPOT GATEWAY

INTRODUCTION

The 4ipnet HSG260 is the most economical and feature-rich Wireless Hotspot Gateway. An access point with built-in controller functionality, the HSG260 is ideal for small-sized organizations and establishments that wish to have an enterprise-grade WLAN without the associated costs and complexity. The HSG260 features 2x2 MIMO radio that can support up to 300 Mbps data rate in the 2.4 GHz band, providing high performance. Along with integrated user authentication, role-based policy assignment, and real-time user monitoring, businesses of all scales can now own a manageable and secure wireless network.

For example, cafés and restaurants can use the HSG260 to quickly generate accounts for guests and patrons. Once a billing plan is configured in the HSG260, paid Wi-Fi services based on traffic volume or time can be enabled. Alternatively, limited free access can be granted by simply entering an e-mail address. With either method, owners can prevent "Wi-Fi squatters" from staying for hours without ordering or buying items on the menu, minimizing lost revenue.

Deployment-wise, the HSG260 integrates the patented 4ipWES (Wireless Easy Setup) technology to perform button-enabled wireless link establishment. By pressing the WES button located on the device, an AES-encrypted wireless link can instantly be formed. For those without an extensive networking or IT background, the HSG260 provides simplified and easy wireless coverage extension.

With the HSG260, the complexity of WLAN deployments can be considerably reduced. Branch offices, cafés, or retail shops can enjoy the benefits brought by managed Wi-Fi at an affordable pricing range. More importantly, security, reliability, and performance of the network are all optimized. Therefore, the HSG260 is the ideal choice in terms of an all-in-one Wi-Fi and user access control appliance.

HIGHLIGHTS

- All-in-one: built-in Wi-Fi and user access control
- Single radio 2.4 GHz
- 802.11n 2x2 MIMO supporting up to 300 Mbps
- Up to 4 ESSIDs
- Wall mountable IP50 dustproof metal housing
- Built-in DHCP server, NAT and other network services
- Integrated enterprise-grade, standards-based security
- User policy assignment
- Detailed logging and reporting

FEATURES

Flexible User Authentication

The HSG260 provides organizations with the same level of security as large enterprises, such as 802.1X user authentication with detailed role-based policy enforcement. Through the combination of roles, scheduling, and profiles, network administrators can control each user's bandwidth, traffic priorities, routing, and much more. Given the widespread usage of smartphones and tablets and that a single user may carry multiple devices, managing user access is more important than ever for organizations needing to ensure reliable and secure Wi-Fi performance.

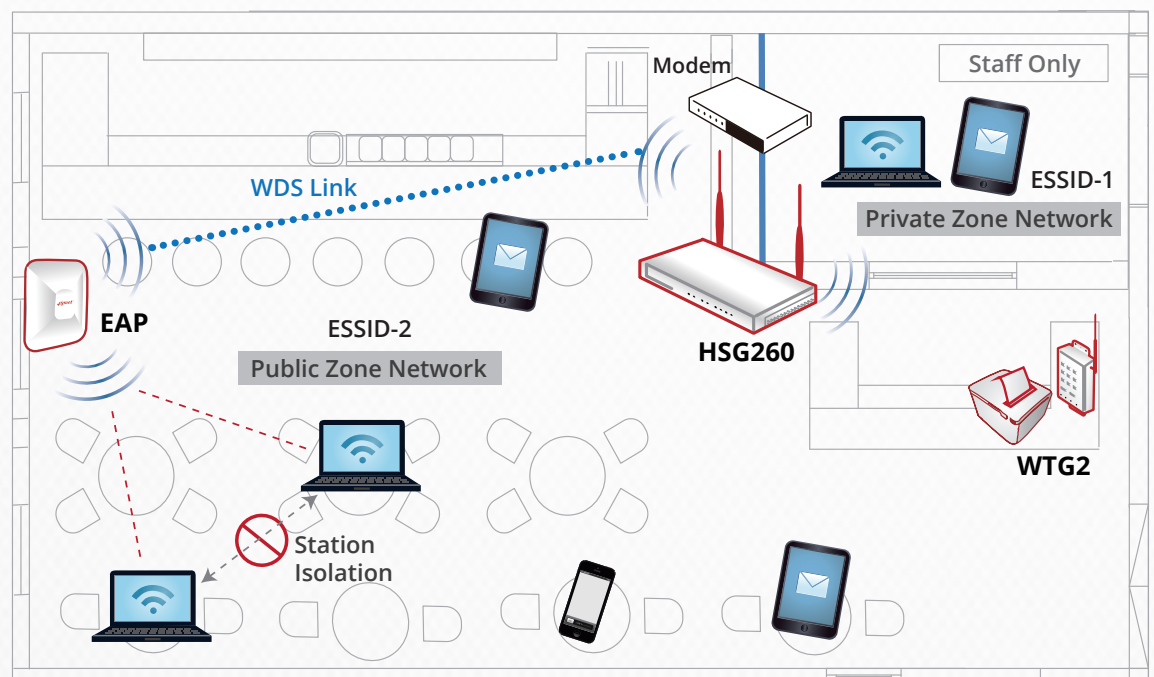### Simplified Network Monitoring and Maintenance

Featuring easy to use and intuitive browser-based management, organizations can configure and monitor network operation without employing an army of wireless savvy network administrators. Furthermore, real-time email notification enables administrators to reduce overall network downtime. Coupled with helpful network utilities and detailed usage/traffic logs, the HSG260 transforms network troubleshooting and maintenance into a walk in the park, minimizing total cost of ownership for an unparalleled price performance.

Integration with Wireless Ticket Generator

When the HSG260 is connected to a 4ipnet WTG-series Wireless Ticket Generator, a Wi-Fi network with an advanced ticketing system is established. The WTG-series can create an on-demand account and print out the login credentials with matching QR codes in just a couple of seconds. Hotspot providers can easily enhance wireless security by giving different passwords to each guest, and with the credentials printed on tickets, guests no longer need to remember any complicated passwords. Finally, users with mobile devices can simply scan the QR code, enjoying Wi-Fi connectivity without all the troublesome login procedures.

4ipWES Wireless Coverage Extension

Wireless Distribution System (WDS) allows for easy extension of wireless coverage by connecting multiple APs, which can be useful in locations where wired cables are difficult to deploy. 4ipWES (4ipnet Wireless Easy Setup) turns the setup process into a quick press and connect, where WDS links can be established with the simple push of a button.

SPECIFICATIONS

PHYSICAL	
Power	• DC Input: 5V / 2A (Power adapter included)
Dimensions	• 22.0 cm (L) x 12.7 cm (W) x 4.5 cm (H)
Weight	• 0.82 kg (1.8 lbs)
Interfaces	• Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 • LAN: 4 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 • Console: 1 x DB9M
LED Indicators	• Power • System Status • 1 x Wireless Status • 1 x Uplink • 4 x LAN • 1 x WES*[1] • 1 x USB
Buttons	• Reset / Restart • Quick Print • 1 x WES*[1]
Environmental Conditions	• Operating Temperature: -30°C (-22°F) to 70°C (158°F) • Operating Humidity: 10% to 80% non-condensing • IP50 Rating
Antenna	• Type: 2 x External single-band 2.4 GHz omnidirectional (included) • Gain: 5 dBi (2.4 GHz)
Mounting	• Wall mount (Mounting panel included)
Kensington Lock	

WI-FI	
Standards	• 802.11 b/g/n • Single-band 2.4 GHz
Supported Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: 6.5 – 144.4 Mbps (20 MHz), 13.5 – 300 Mbps (40 MHz)
Radio Chains	• 2 x 2
Spatial Streams	• 2
Output Power	• 2.4 GHz: Up to 17 dBm*[2]
Channelization	• 20 MHz • 40 MHz
Frequency Band	• 2.412 – 2.472 GHz
Operating Channels	• 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan)
ESSIDs	• Up to 4
Certifications	• FCC (United States), CE (Europe) • RoHS compliant

WIRELESS PERFORMANCE	
Physical Data Rate	• Up to 300 Mbps

*1: WES (Wireless Easy Setup) - Simple button-enabled establishment of WDS links
*2: Maximum power is limited by local regulatory requirements

\\\\\\\\\\\\\\\\\\\\\www.4ipnet.com\\\

3

WIRELESS SECURITY

Wireless Security	◆ WEP ◆ WPA/WPA2 Mixed ◆ WPA2-Personal ◆ WPA2-Enterprise (802.1X) ◆ TKIP and AES Encryption
Station Isolation	◆ Yes
Layer 2 Firewall	◆ Yes
DHCP Snooping	◆ Yes

USER AUTHENTICATION

Authentication Types	◆ 802.1X ◆ UAM (browser-based) ◆ IP or MAC-based
Authentication Servers	◆ Local ◆ On-Demand ◆ Guest ◆ RADIUS
Customizable Captive Portal	◆ Yes
Customizable Walled Garden	◆ Yes
Integrated Guest Access	◆ Yes
Local Account Database	◆ Yes
User Blacklisting	◆ Yes
HTTPs Login Redirect	◆ Yes

USER MANAGEMENT

User Policy Assignment	◆ Role-based ◆ Time & location dependent
Bandwidth Limitations	◆ Yes
Traffic Classification / Remarking	◆ Yes; 802.1p / DSCP
Stateful Firewall	◆ Yes; each role with individual enforcement schedules
Static Route Assignment	◆ Yes
Concurrent Session Limit	◆ Yes
Client Change Password Privilege	◆ Allow authenticated users to modify their own login password

NETWORK SERVICES

Internet Protocols Supported	◆ IPv4 ◆ IPv6
DHCP Server	◆ Yes
DHCP Relay	◆ Yes
Network Address Translation	◆ Yes
Built-in HTTP Proxy Server	◆ Yes
Local DNS Records	◆ Yes
Integrated Billing & Accounting System	◆ Yes
Billing Quota Types	◆ By duration ◆ By traffic volume

DEVICE MOBILITY

802.1X Preauthentication	◆ Yes
Multiple Device Logins Per Account	◆ Yes

SYSTEM CAPACITY

Local Accounts	◆ Up to 500
On-Demand Accounts	◆ Up to 2,000

SYSTEM MANAGEMENT

Browser-Based Configuration	◆ Administer the system from any standard web browser
Administrator Accounts	◆ Multiple tiered access privileges ◆ Monitor each admin's current accessed page
System Time	◆ Automatic synchronization (NTP) ◆ Manually configured
System Backup & Restore	◆ Yes
SNMP	◆ Yes; v1/v2c
Network Utilities	◆ Yes; built-in packet capture

SYSTEM & NETWORK STATUS

Traffic Volume Reports	◆ Yes
Online Device Monitoring	◆ Yes
Active Sessions List	◆ Yes
SMTP (E-mail) Notifications	◆ Yes
Multiple Concurrent E-mail Notification Receivers	◆ Yes

NETWORK ACTIVITY LOGS

System Log (SYSLOG)	◆ Yes
Configuration Change Log	◆ Yes
RADIUS Server Log	◆ Yes
UAMD Log	◆ Yes
User Events Log	◆ Yes