



Wireless Hotspot Gateway



WHG-1000

H/W Version: 1

The LevelOne WHG-1000 is a multi-function, all-in-one Wireless Hotspot Gateway for wireless Public Hotspot Applications. The WHG-1000 is designed for hotspot service providers to have an integrated solution for rapid deployment, and start a hotspot service quickly, easily and enhance service performance.

Feature-Rich for Hotspot operation

The WHG-1000 comes with a built-in 802.11 b/g/n 2.4GHz Access Point with MIMO technology, Web server and Web Pages for client to login, easy logo-loading for branding a hotspot store, simple user/visitor account management tool, payment plans, PayPal credit card gateway, traffic logs, IP sharing etc..

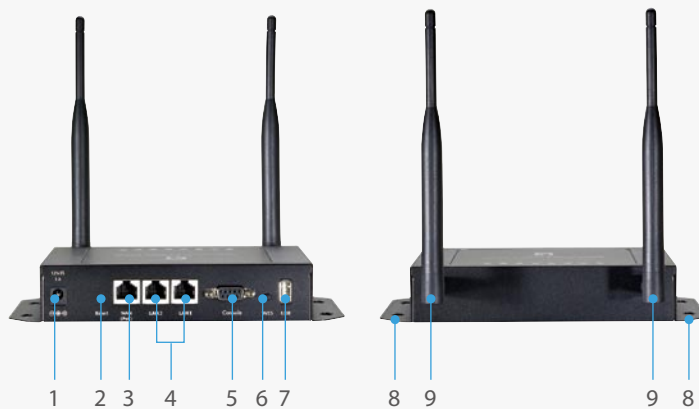
Billing Enablement

The WHG-1000 supports a billing print out function,

with the optional LevelOne Device server DSA-1000 and Ticket Printer PRT-1000. The front desk can simply push the button on the Device Server which generates on-demand accounts by triggering pre-edited billing plans in the WHG-1000. This instructs the Ticket Printer to print out the information on the receipt, such as Login User Name, Password, SSID for end-users Internet Access.

Easy Installation and Operation

The WHG-1000 is the ideal solution for establishing Hotspot Internet service applications. Built-In billing function and receipt printing capabilities makes it suitable for providing Internet access of businesses and public areas applications, such as hotels, coffee shops, train stations, school libraries and airports.



1. Power Port
2. Reset Button
3. PoE WAN Port
4. PoE LAN Port
5. Console Port
6. WES Button
7. USB Port
8. Wall-Mountable
9. Detachable Antenna

Key Features

- 2 Antennas with 2T/2R MIMO Technology for Wireless Data Rates of up to 300Mbps
- 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 Maximizes Profits (QoS)
- Support Various Broadband Deployment Options (T1, xDSL, Cable) via Static IP, HDCP and PPPoE
- Standard-Based Data Encryption and User Authentication: WEP, WPA, WPA2, IEEE 802.1x
- Flexible Accounting and Billing Management

Works Well With



WAP-6102
300Mbps Wireless Ceiling PoE Access Point



FSW-1671
8 FE + 8 FE PoE Web smart Switch

Technical Specification

Networking

- NAT or Router mode
- Static IP, DHCP, PPPoE mode on WAN interfaces
- Support IP Plug and Play (IP PnP)
- Built-in with DHCP Server and support DHCP relay
- NAT:
 - (1) DMZ server mapping
 - (2) Public Access server
 - (3) IP/Port destination redirection
- Configurable static routes
- Support E-mail Service via designated E-mail Server
- Walled Garden
- Walled Garden Ad List to post Advertisement website links on user login portal page
- MAC-address Pass-Through
- Ethernet connection to external terminal servers

Security

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

User Management

- 100 Local accounts and 500 On-demand accounts for visitors
- Multiple authentication methods (Local, RADIUS x 2 and On-demand)
- Local user account roaming
- Policy-based access control (per-role assignments based on 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
- SYSLOG for diagnosis and troubleshooting
- User Logs for traffic recording
- User Traffic session (TCP/UDP) logging
- Event Log

System Administration

- Web-based management User Interface
- Provide customizable login and logout portal page
- SSH remote management
- Remote firmware upgrade
- Console management
- NTP time synchronization
- Backup and restore the system configuration
- SNMPv1/v2c

Accounting and Billing

- Provide billing plans for 500 On-demand accounts
- Various on-demand account types: Usage, Duration and Cut-off
- Session expiration control for On-demand accounts by time
- Detailed per-user tragic history based on time for both local and On-demand accounts
- Traffic history report in an automatic E-mail to administrator
- Support credit card payment via external payment gateway (PayPal)
- 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 Specification

- Wi-Fi standard: IEEE 802.11b/g/n in 2.4GHz frequency band
- Modulation: OFDM, DSSS, CCK
- Wireless Interface: 1 x 802.11 b/g/n (11/54/300 Mbps)
- 2 x 5dBi (US) / 2dBi (EU) 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 PoE compliant with IEEE 802.3af
- Console Port : 1 x D89
- USB Port : 1
- LED Indicators: 1 x Power, 1 x WAN, 2 x LAN, 1 x WLAN, 1 x WES (WDS Easy Setup) Button

Physical and Power

- AC Input Power: 100~240 VAC, 50~60 Hz
- DC Output: 12V, 1A
- Form Factor: Wall Mountable
- Dimensions (W x D x H): 204 mm x 134 mm x 35 mm
- Weight: 0.61 kg




Environment

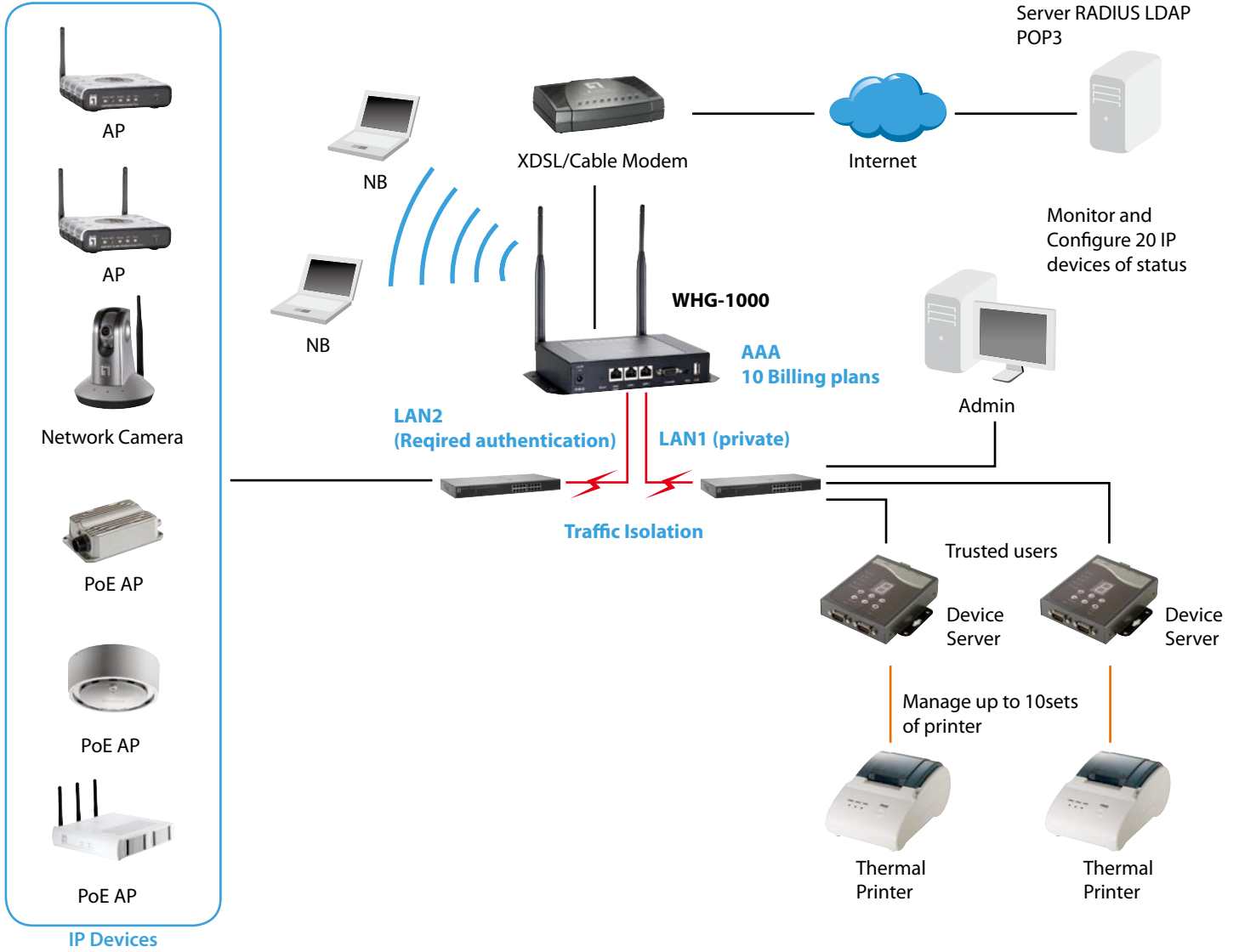
- Operating Temperature: -30 ~ 70 °C
- Storage Temperature: -40~85 °C
- Operation Humidity: 10%~80 (Non-condensing)
- Storage Humidity: 5%~90 (Non-condensing)

Certifications

- CE, FCC
- RoHS compliant

Product Diagram

-  Ethernet Cable (RJ 45)
-  PoE
-  RS232



Order Information

WHG-1000: Wireless Hotspot Gateway

PRT-1000: Thermal Printer

DSA-1000: Devie Server

Package Content

WHG-1000 x1, CD User Manual x1, Quick Installation Guide (QIG) x1, Power Adapter x1
Antenna x2, Console Cable x1, Ethernet Cable x1, Ground Cable x1, Mounting Kit x1

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