

WGS250 DATASHEET



NONIUS.HSIA solution is a highly advanced solution for Hospitality Internet access management. Due to its efficient usage of the link(s) capacity, the high availability and high performance, makes the NONIUS.HSIA, an ideal solution for high density Wi-Fi hotspots (e.g. Hotels with large conference spaces).

The WGServer is a high availability and reliability appliance with all the necessary gateway and server functions to manage Internet access. It's main application is the management and control of Internet access hotspots.

It combines the functionalities of a hotspot gateway, the network services of a network server, and the integrated Internet access management and billing software, needed for small and medium scale ISP deployment.

MAIN FEATURES

- Internet access management & billing
- Integrated billing front office software
- Hotspot gateway (captive portal, zero configuration)
- 3rd Party Integration (Hotel PMS systems, switching, hotspot gateways)
- High availability (failover, load balancing, QoS, caching)
- Comprehensive management interface

MANAGEMENT

- 1 x Gigabit Ethernet 10/100/1000 Mbps
- Administration console
- SNMP

SPECIFICATIONS

Mechanical/Environmental/Compliance	WGS250
Power supply	50W A/C adapter
Physical dimensions	300(w) x 145(d) x 44(h) mm
Rack mount	WG250 Rack mounting kit - Optional
Network Interfaces	4 x GbE
Operating Temperature	5 to 35°C (41 to 95°F)
Humidity (non-condensing)	20% to 90%RH
Compliance	CE/FCC/UL
Cache	64 MB

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TECHNICAL SPECIFICATIONS

NETWORK SERVER SERVICES

- RADIUS server / Roaming
- WEB server (PHP, PERL, SSL, CGI)
- Email server (POP3, IMAP, SMTP)
- Mysql database
- Dynamic DNS
- Network Time Protocol
- Transparent HTTP Proxy
- DNS Server
- Web space services
- WebMail services

MULTIPLE CONTROLLERS

- WAN link failover
- Multiple gateway load balancing
- Hotspot bandwidth Up/Dn limitation
- Bandwidth management per subscriber network
- QoS/Traffic shaping - 6 service levels
- Service availability
- Favourites preloading and caching

SECURITY AND FIREWALL

- Statefull inspection firewall
- SIP, H.323 ALG
- FTP client passive/active ALG
- PPTP, IPSEC, Cisco VPN, pass-through
- DNAT, SNAT, Traversal NAT
- Port forwarding per user/MAC address
- MAC filter
- HTTP proxy redirection
- Web site access blacklist
- Free/Blocked IP adress management
- Implements european directive 2006-24-CE

INTEGRATION/COMPATIBILITY

- 3rd Party hotspot gateway subscribers (Colubris, Cisco, ...)
- Hotel PMS/If (EasyLinqHotel, NewHotel, Fidelio, HBS, CMNET, Desbravador, Hotel Concepts, OCL, Protel, Brilliant, ...)
- Switching (3COM, HP, Cisco, ...)
- Ticket printers (Brother QL-550, Godex EZPlus)
- 3rd Party WISPr authentication radius server
- 3rd Party database connectors for user authentication
- Web services based API for hotspot management

MANAGEMENT

- Intuitive web configuration
- No client software required
- Internet Explorer, Firefox compatible
- Serial console for recovery
- Automatic DB backups
- Events Email notification
- Local Logging
- Hotspot Devices Management
- Maintenance Client VPN (OpenVPN)
- Access control compliant with 2006-24-CE
- SNMP Agent

INTERNET ACCESS BILLING

- AAA - Authentication, Authorization & Accounting
- Web page login with secure HTTPS authentication
- Hotspot with frame pointing to configurable web site
- Connection's time control web page pop-up
- Configurable automatic logoff (inactivity detection)
- Free/Blocked web sites management
- Online user registration system
- SMS user registration system
- PayPal / Credit card billing
- Pre-paid cards management / generation
- Users accounts management
- MAC address authentication
- Username/password authentication
- Flexible time-based billing (hour, min, ...)
- Flexible traffic-based billing (MB, GB)
- Flexible traffic-based / time usage / absolute time / bandwidth service limitations
- Usage statistics / users statistics records
- Users traffic logger
- Pre-paid statistics persistent records
- Sessions historic reports / ROI calculation
- Per VLAN login webpage
- Highly flexible, comprehensive and configurable billing profiles

PLATFORM

- Nonius customized embedded Linux
- Linux Kernel 2.6
- Java virtual machine for applications integration
- Apache web server
- Transparent proxy

HOTSPOT GATEWAY SERVICES

- Captive portal (HTTP) - Layer2 / Layer3
- Radius WISPr extension compatible
- Zero configuration (any IP, any DNS, any Proxy)
- Universal Access Method (UAM)
- DHCP server / client
- DNS relay / client
- MAC filter
- SPI firewall, NAT, DNAT e SNAT

NETWORK SERVICES

- TCP/IP Protocol Stack
- Routing / Forwarding Services
- 802.11Q TAG VLANS
- Intra VLAN traffic blocking
- Bridge, STP Protocol
- SSH, Ping, Telnet, SNMP



Model	WGS250
Max Simultaneous Users	500
Max Aggregated Bandwidth	220 Mbps
Max Connect. Tracking Sessions	128 K
Memory RAM	1 GB
CPU	Dual Core 1.66GHz