SG 4220S & 4410S (S-Series)

SG 4 S-series gateways enable service providers to manage large venue networks easily with self-service account provisioning and multiple authentication methods. It offers intelligent and dynamic traffic management, flexible time and/or volume accounting—all in one box.

Standard Features

Plug & Play Zero Configuration Network
- Supports static and dynamic (DHCP) IP addresses
- Supports selective DHCP scope per VLAN
- Adaptive Domain Name Services (DNS)
- Transparent Simple Mail Transfer Protocol (SMTP)
- Transparent web proxy
- Application NAT (VPN, SIP, RSTP, MMS, H323)
- IPv6 support

PMS Support
- TCP/IP: Micros Fidelio / Opera, Enhanced Opera extensions, Galaxy Lightspeed
- Serial: Micros Fidelio / Opera, FCS, Softbrands, Hobic, Prologic, Comtrol, Protel, Agilysys

Guest-Aware Bandwidth Optimization
- Application traffic prioritization
- Guest-aware Advanced QoS (Basic / Premium / Guaranteed)
- Shared bandwidth rate limit across multiple devices
- Volume control
- Dual WAN link load-balancing

Performance Features
- Supports up to 30,000 users
- 1000 DNS QPS
- Supports up to 9Gbps throughput

Multiple Authentication & Billing Interfaces
- Complimentary access
- User ID and password authentication (local accounts)
- Access code authentication (local accounts)
- MAC-level authentication for non-HTTP devices
- PMS authentication and Billing
- LDAP authentication
- SMS authentication
- Social Media: Facebook, Twitter, Google, Instagram, Line, WeChat, LinkedIn, Office 365
- Auto-login (no login page)

Guest Management & Content
- Auto-logout of inactive guests
- Forced logout of guests
- Departed device detection and logout
- Bandwidth rate limit: device / account
- HTTP / HTTPS / IP walled garden
- Email login reminder
- Smartphone / tablets friendly
- Location / VLAN-based content delivery
- Unique login pages for separate locations
- Admin-assisted login

Credit Card Authentication & Billing
- Worldpay, Authorize.net, Payflow Pro, Payflow Link

RADIUS / WISPr
- RADIUS authentication and billing
- Support for Wireless Internet Service Provider roaming

Concurrent / Multi Business Model Support
- Unlimited duration and volume
- Fixed duration
- Stored duration
- Stored volume: 2 modes (logout / throttled)
- Fair-use

Licensing
- Centralized license management

Dashboards
- Business, System, and Network

VPN Support
- Multiple IP for Network Address Port Translation (NAPT)
- User-provisioned routable public IP address

Account Printer Support
- Generate Internet access account quickly with a single tap

Lawful Intercept
- Monitoring of networks
- Comply with legislative requirements
- Local storage of logs

Security & Reporting
- Private Area Network (PAN)
- DNS filtering / category blocking
- Site / domain filtering
- Access control to web administration GUI
- MAC-based blacklist
- Anti-Spam and Anti-DoS features
- DoS event alerts
- Configurable plan-based firewall
- 802.1Q VLAN security
- Web session rate limit
- Real-time reporting on authenticated guest and detected devices
- Guests, device and web-page access logging
- Graphical presentation of system reports

Reliability
- High Availability Offering (Active-Passive)
  - Real-time HA disk replication
  - Fail-over within 1 minute, typically 30 seconds
- Configuration Backup and Restore Function
- Redundant Power Supply
- Redundant Array of Inexpensive Disks (RAID)
- Dedicated LAN, WAN, HA, Management and WAN2 ports with active-passive link redundancy support
- Built-in remote KVM

System Management & Administration
- Supports SNMPv2
- Network Time Protocol (NTP) server
- Configurable DHCP server / relay
- Remote Syslog
- User-provisioned routable public IP address
- External HTTP web proxy
- Remote edge device (switches / hubs / access points) monitoring
- Multiple IP for Network Address Port Translation (NAPT)
- Secure Socket Layer (SSL) certificate management
- Two-tier console CLI support via SSH
- Configurable tiered access for web admin
- Admin access audit logs
- DNS Hosting
- ANTlabs Cloud Services (ACS) support

Event Scheduling
- Schedule events
- Visitor digital experience customization
- Event reports generation

Specifications

Model	SG 4220S	SG 4410S
Max Capacity[1]	10,000	30,000
Max VLANs	4000	
Max Throughput[2]	9 Gbps (10GE NIC)	
Max PPS	400,000	500,000
Supported NIC Interfaces	10/100/1000/10000 Base-T/10000 Fiber	
Network Interfaces	2 x 10GbE SFP+ LAN Port (bonded) 2 x 10GbE SFP+ WAN Port (bonded) 2 x WAN2 Port (bonded) 2 x Management Port (bonded) 2 x HA Port (bonded) 2 x DMZ Port (bonded)	
COM	1 x RS232 (DB9) Console Port	
Power Supply	Redundant 750W	
Weight	Actual unit: 19.5 kg Shipping: 33.86 kg	Actual unit: 21.9 kg Shipping: 36.26 kg
Dimensions	Form Factor: Rack (1U) Actual unit: 482.43 (W) x 808.5 (D) x 42.8 (H) mm Shipping: 648 (W) x 1020 (D) x 311 (H) mm	
Remote Management	1 x Network Remote Management KVM Port	
Certifications	SCC, CNCA or CCC, CE, TUV, IECEE CB, KSA ICCP, NRCS, BSMI, NRTL, ACMA or C-Tick, ICES, VCCI, GS, GOST, SABS, KCC, FCC, ICT	
Included Modules	High Availability, Management Port	

Add-on Modules

Property Management System	✔	
Payment	✔	
Volume Control	✔	
Multi-WAN	✔	
Account Printer Support	✔ Max 40	
Lawful Intercept	✔ Syslog + Local	
Advanced QoS	✔	
RADIUS & WISPr	✔	
Event Manager	✔ 30 Events	
Personal Area Network	✔	
Security Module	✔	

[1] Detected Devices

[2] As defined by RFC1242, Section 3.17