



SSG 4

The SSG 4 series is the ideal carrier-class solution for deploying large-scale wired and wireless broadband networks, with hundreds of thousands of subscribers, such as municipal and metropolitan broadband wireless access, campus-networks and multi-tenant units (MTU). SSG 4000 is designed to meet the connectivity service needs of Telcos and ISPs that are seeking to expand subscriber services and improve service revenues.



Standard Features

Plug & Play Zero Configuration Network

- Supports both static and dynamic (DHCP) IP addresses
- Adaptive Domain Name Services (DNS) support
- Transparent Simple Mail Transfer Protocol (SMTP) support
- Transparent web proxy support
- Application NAT support (VPN, SIP, RSTP, MMS, H323)

IPv6 Support

- Dual Stack IPv4/IPv6 (IPv6 IP, VLAN, Routing, DNS Configuration)
- Extension Mechanisms for DNS (EDNS0) for IPv6 DNS queries

Authentication Features

- Multiple RADIUS servers support (RADIUS client / RADIUS proxy)
- Session Initiated Protocol (SIP) Authentication
- Secure HTML Login Page via Universal Access Method (UAM)
- Internal Web-based user and password Authentication
- Single-click URL login
- IEEE 802.1X / EAP (EAP-SIM/EAP-TTLS/EAP-TLS)
- POP3 Authentication support
- MAC-level authentication for non-HTTP devices
- MAC based re-login for mobile devices support

System Management Features

- SNMPv2 Support
- Network Time Protocol (NTP) server support
- File Transfer Protocol (FTP) server
- Configurable DHCP Server / Relay support
- Remote Syslog Support
- User Provisioned Routable Public IP address for clients
- External Hypertext Transfer Protocol (HTTP) Proxy support
- Remote edge device (switches / hubs / access points) management
- Multiple IP for Network Address Port Translation (NAPT)
- Secure Socket Layer (SSL) certificate management
- Management Port Support

Subscriber Management Features

- Auto Logout of inactive subscribers
- Forced Logout of subscribers
- Bandwidth Rate Limit
- Advanced QoS
- Concurrent login sessions per subscriber account
- Location specific login concurrency limit
- Volume-based accounting/access
- Fixed, Dynamic and Application Bandwidth Rate Limit

Subscriber Content Features

- Web / IP Walled-garden
- Email Reminder
- PDA / PDA-phone friendly
- Location / VLAN-based content delivery
- SmartURL™
- Fully customizable portal development
- Unique login pages for separate locations (Login / Login-Success / Logout)
- Integrated Web Server for web page / portal upload

Performance Features

- Supports up to 50,000 users
- 1000 DNS QPS
- Supports 10GE network card option
- L3 tunnel support (10000 tunnels)

Billing Features

- Credit Card Billing with customizable payment page
- RADIUS billing (for pre-paid & post-paid)
- WISPr Support for iPass, Boingo
- Duration based billing with pop-up timer

Wholesale Features

- Global roaming support via RADIUS
- Centralized RADIUS accounting
- Virtual Router Support
- DNS Hosting
- EVI / EoGRE concentrator

Reporting Features

- Real-time reporting on authenticated subscribers
- Real-time reporting on detected devices
- Subscriber access logging
- Device access logging
- Web-page access logging
- Exportable logs
- Application, System & Network Services Graphical Reports

Security Features

- URL / Content Filtering
- Access Control to Web Administration GUI
- Subscriber blacklist
- Anti-Spam features
- Anti-DoS features
- Configurable Role-based Firewall
- 802.1Q VLAN security
- Lawful Intercept (Connection Logging, URL Logging)
- Dynamic DNS Throttling

System Administration Features

- Secure connection (SSL) to web-based Admin page
- Two-tier Console CLI support
- Tiered Access for Web Administration
- Admin Access Audit Logs
- Network KVM support

Reliability Features

- 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)
- Redundant RADIUS Server support
- Dedicated LAN, WAN, HA, Mgmt and DMZ ports with active-passive link redundancy support



Specifications

Model	SSG 4000			
	4100	4200	4300	4400
Factory Default User License ¹	2,000 (User Increment: 500)	10,000 (User Increment: 1,000)	20,000 (User Increment: 1,000)	50,000 (User Increment: 1,000)
Max VLANs ²	256	1,000	2,000	2,000
Supported NIC Interfaces	1/100/1000 Base-T	10/100/1000 Base-T/ 10000 Fiber/ 10000 Base-T	10/100/1000 Base-T/ 10000 Fiber/ 10000 Base-T	10/100/1000 Base-T/ 10000 Fiber/ 10000 Base-T
Network Interfaces	2 x HA Port (bonded) 1 x LAN Port 1 x WAN Port 1 x Management Port 1 x DMZ	2 x HA Port (bonded) 2 x LAN Port (bonded) 2 x WAN Port (bonded) 2 x Management Port (bonded) 2 x DMZ (bonded)	2 x HA Port (bonded) 2 x LAN Port (bonded) 2 x WAN Port (bonded) 2 x Management Port (bonded) 2 x DMZ (bonded)	2 x HA Port (bonded) 2 x LAN Port (bonded) 2 x WAN Port (bonded) 2 x Management Port (bonded) 2 x DMZ (bonded) 2 x WAN2 Port (bonded)
COM	1 x RS232 (DB9) Console Port, 1 x USB Serial Console Port			
Power Supply	Redundant 350W	Redundant 750W		
Nett Weight	11.8 KG	16 KG	22.5 KG	16 KG
Dimensions	1U 482.4 (W) x 612.6 (D) x 42.4 (H) mm	2U 436.6 (W) x 610.2 (D) x 86.4 (H) mm	2U 436.6 (W) x 610.2 (D) x 86.4 (H) mm	1U 482.43 (W) x 758.23 (D) x 42.8 (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	RADIUS Authentication, LDAP Authentication, WISPr, Advanced QoS, Management Port, DMZ Port			
Add-on Modules				
Property Management System	✓			
L3 Tunnel Support (EVIC/EoGRE)	✓			
Credit Card Payment / Billing	✓			
Lawful Intercept	✓ Syslog + Local			
Account Printer Support	✓ Max 40			
10 GE Interface Support	✓			
Virtual Router Support	✓			
Volume Control Module	✓			

¹ Detected Devices

² When configuring more than 1000 VLANs, device capacity will max out at 10000 (SSG 4300) and 20000 (SSG 4400) respectively

All specifications are subject to change.