

# ANTlabs Service Selection Gateway 4000 (SSG4)

Product Data Sheet

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 and Play Zero-Configuration Networking

- 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<sup>New</sup>

- 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
- Multi-Tier 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 20,000 users
- 1000 DNS QPS
- Support 10GE network card option<sup>New</sup>
- L3 tunnel support (10000 tunnels)

### Billing Features

- Credit Card Billing with customizable payment page
- RADIUS billing (for pre-paid & post-paid)
- Wireless Internet Service Provider Roaming (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<sup>New</sup>

### 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 Administrator 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	4100	4200	4300
Max User License <sup>1</sup>	2,000 (User Increment: 500)	10,000 (User Increment: 1,000)	20,000 (User Increment: 1,000)
Max VLANs	256	1000	2000
Supported NIC Interfaces	1/100/1000BaseT	10/100/1000/10000BaseT	10/100/1000/10000BaseT
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)
COM	1 x RS232 (DB9) Console Port, 1 x USB Serial Console Port		
Power Supply	Redundant 350W	Redundant 750W	Redundant 750W
Nett Weight	11.8 KG	16 KG	22.5 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
Remote Management	1 x Network Remote Management KVM Port		
Certifications	SCC, CNCA or CCC, CE, TUV, IECCE CB, KSA ICCP, NRCS, BSMI, NRTL, ACMA or C-Tick, ICES, VCCI, GS, GOST, SABS, KCC, FCC, ICT		

<sup>1</sup> Detected Devices  
All specifications are subject to change.