ANT*labs* Service Selection Gateway 4000 Series (SSG 4000)

Product Data Sheet

The ANTlabs SSG 4000 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.

Features List

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 [New]
- 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 [New]

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 [New]

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, Mgt and DMZ ports with active-passive link redundancy support

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Connectivity Made Easy

Specifications

Model	4100	4200	4300
Max User License[1]	2000 (User Increment: 500)	10000 (User Increment: 1000)	20000 (User Increment: 1000)
Max VLANs[2]	128	1000	2000
Supported NIC Interfaces	10/100/1000BaseT	10/100/1000/10000BaseT	10/100/1000/10000BaseT
Network Interfaces	1 x HA Port 1 x LAN Port 1 x WAN Port 1 x Management Port	2 x HA Port (bonded) 2 x LAN Port (bonded) 2 x WAN Port (bonded) 2 x Management Port (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 Consumption	Non-Redundant 250W	Redundant 750W	Redundant 750W
Max Weight	8.05 KG	16 KG	22.5 KG
Dimensions	1U 42.4 (H) x 394.3 (W) x 482.6 (D) (mm)	2U 86.4(H) x 436.6(W) x 610.2(D) (mm)	2U 86.4(H) x 436.6(W) x 610.2(D) (mm)
Remote Management	1 x Network Remote Management KVM Port		
Certification	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		

[1] Maximum Detected Devices
[2] Max Recommended VLAN

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