

## SG710/710+

### VPN/Firewall



The SG710, with multi-megabit throughput, four fast Ethernet ports standard, and the option for two additional gigabit ports, is an excellent solution for branch offices of large organizations, as well as central offices of small to mid-sized enterprises (SME).

The SG710 provides central site VPN, firewall and session load balancing capabilities with the capacity to securely connect hundreds of mobile and remote employees. The SNORT-based IDS adds an extra security layer by detecting attacks and alerting administrator. So that countermeasures can be implemented quickly before the network is compromised. With its rich feature set and rack-optimized form factor, the SG710 is a compelling enterprise-class firewall solution at a mid-market price.

#### Flexible Network Configuration with Bandwidth Optimization

The SG710 supports four 10/100 Fast Ethernet (FE) segments in its base configuration. Customers requiring Gigabit Ethernet (GbE) connectivity can order the SG710+, which is equipped with dual GbE ports, extending the total number of Ethernet segments to six. Central and remote networks can connect to the Internet through a variety of broadband (ADSL, SHDSL and cable) or dedicated high-speed copper (T-1, T-2, fractional T-3 and full T-3) or fiber circuits (OC-1 to OC-3).

The SG710 improves available Internet bandwidth and connection uptime by providing traffic load balancing across dual WAN links while an embedded Web proxy cache, based on Squid, further accelerates Web page downloads. This makes the SG710 an excellent solution for organizations that are power Web users or have many remote offices accessing corporate intranets. Bandwidth can be further optimized through traffic shaping controls. Customers wishing to protect against access to inappropriate Web material can purchase an URL content filtering (UCF) subscription service. This works in conjunction with the URL proxy embedded in the SG710 to increase productivity and available bandwidth. The combination supports blocking, monitoring, rating and optional reporting without the need for an on-site URL database.

#### Fully Integrated IDS Assures Maximum Security

Although all SG firewall/VPN appliances defend against Denial of Service and other common attacks, the SG710 raises the bar by detecting "suspicious" activity before it escalates into a full-blown network intrusion.

#### Web Cache for Rapid Web Response Time

The SG710 incorporates a powerful Web proxy cache to improve Web page response time and reduce link loads. Designed to integrate seamlessly with upstream proxy caches provided by ISPs, the SG710 allows complete tuning of the service using the management console GUI and command-line interface.

#### Failover and Load Balancing

Increase uptime and boost performance by connecting the SG710's two broadband links to different Internet providers, and then combining these into a single "virtualized" high performance connection. A network outage on either link will automatically switch traffic to the operational link via the built-in link failover features. The resulting network redundancy makes it possible to reduce by half the number of security appliances required to protect a network while preserving maximum throughput and uptime. The traffic load-balancing feature also boosts the performance of Web transfers and the stability of a company network connected by DSL to the Internet.

#### Demilitarized Zones (DMZ)

Administrators can improve on-site and remote employee productivity without compromising security by creating DMZs that segment the network into private and public security zones. Typically, the private network will be used to secure "internal" data while the DMZ permits access to e-mail servers, Web servers, and other "public" applications and content.

# Wireless & Security

## FEATURES:

- 1RU rack mount case for server room/wiring closet
- Secure IPsec VPN with DES, 3DES and AES
- IDS for proactive detection and mitigation of network threats
- Session load balancing and Web proxy cache to optimise Internet traffic
- DMZ support to implement a public server infrastructure
- Unrestricted, unlimited user license
- No third-party client software required
- Web console for configuration and management
- Fully interoperable with other SG appliances and other standards-based security devices

## SG710/710+ SPECIFICATIONS:

- IPsec VPN
- VPNC-certified interoperability
- Peer-to-peer (initiate and terminate)
- ESP and AH payloads
- Supports aggressive mode
- Dead peer detection
- Compression (deflate/gzip type algorithm)
- DES 56-bit, 3DES 168-bit, AES 256-bit encryption
- Hashes HMAC - MD5 and SHA-1 authentication
- IKE/ISAKMP Diffie-Hellman key exchange
- Diffie-Hellman Groups (1,2,5) and Oakley Groups (14,15,16) to 4096-bits
- X.509 certificates DER, PEM formats
- Pre-shared secrets
- Dynamic IP address end-points
- Dynamic DNS IPsec support
- Authentication up to 2048-bit for RSA key signatures
- Multiple subnets
- NAT traversal
- Up to 1000 IPsec tunnels
- 42 Mbps IPsec 3DES (VPN/firewall)
- 68 Mbps IPsec 3DES (VPN only)
- 42 Mbps IPsec AES (VPN/firewall)
- 68 Mbps IPsec AES (VPN only)
- VPN - L2TP
- IPsec config Wizard
- L2TP over IPsec
- Autonomous L2TP
- Client: NAT, default route via L2TP
- Server: specify client IP address range
- VPN - PPTP
- v2 client and server
- Pass-through mode also
- MPPE 40 to 128-bit RC4 encryption
- PAP/CHAP/MS CHAPv2 authentication
- L2TP & GRE tunnelling extensions
- Up to 15 PPTP client tunnels
- Up to 25 PPTP server tunnels
- Up to 12 Mbps RC4 throughput
- ICSA-certified dynamic firewall
- Routing
- DHCP - client and server
- PPPoE (for ADSL support)
- NAT - static and dynamic
- NAT/PAT - port forwarding
- Connection sharing

## RECOMMENDED FOR:

- Mid to large-sized enterprise branch offices requiring a fully integrated firewall/VPN/IDS solution
- Sites needing an ICSA-certified stateful inspection firewall supporting xDSL, T-1, T-3, OC-1 & OC-3 network configurations
- Mid-sized, multi-site networks needing a central VPN appliance to connect branch offices and mobile workers
- Sites requiring a DMZ or the capability to segment a network into separate workgroup or departmental security zones
- High bandwidth Internet and remote intranet environments

- Anti-intrusion
- Logging (local and remote)
- Traffic shaping (QoS)
- IP aliases
- NTP client and server
- Web management
- CLI (Telnet) management
- Initial set-up via either static IP address or dynamic IP address (DHCP client)
- Bridging (802.1d)
- Administration user accounts
- RADIUS/TACACS+
- DNS enhanced caching, masquerading, proxy, multiple DNS server proxying
- RAS (dial-in)
- Failover/high availability
- Dial on demand
- Line speed 200 Mbps routed throughput
- Line speed 200 Mbps PPPoE throughput
- Line speed 200 Mbps firewall throughput
- 300 Mbps routed throughput (SG710+)
- 300 Mbps firewall throughput (SG710+)
- RIP, RIPv2
- BGP
- SSL/HTTPS web management
- SSH server & client
- Failover
- Load balancing
- Intrusion Detection System (IDS) based on Snort
- Web proxy cache/Accelerator based on Squid
- Status LEDs
- WAN - dual 10/100BaseT FE ports
- DMZ - 4 port 10/100BaseT FE Switch
- LAN - 4 port 10/100BaseT FE Switch
- Dual 10/100/1000 GbE ports (SG710+ only)
- Serial ports - 1 (console, dial-in, or dial-on-demand)
- Cryptographic acceleration
- Memory - 32Mb Flash, 128Mb RAM
- Real timeclock
- Power - Mains AC (100 - 240 Volts)
- Weight - 4lb (2 Kg)
- Dimensions - 19 - 1RU
- Operating temperature 0C to 40C
- Storage temperature -20C to 70C
- Humidity 5 to 95%, non-condensing
- Certification - Office Use
- Warranty - 1 year\*