## PROTELION

PROTELION SGA1000
Security gateway for channel protection

The Protelion SGA is our encryption hardware appliance to establish protected communication channels between sites.

It functions as a security gateway and cryptographic router designed to protect enterprise computer networks and provide secure access to data centers and corporate cloud infrastructures with high-speed communication channels.

USE CASES

- Secure communication between branches of an organization (site-to-site and multi-site-to-site)
- Protecting backbone links between data centers
- Network protection, also with wireless channels
- Protected access to the corporate network for remote and mobile users
- Protecting multiservice networks (including IP telephony and videoconferencing)
- Differentiated data access in local networks, splitting local networks (for example, creating a DMZ)
- Communicating with Protelion networks of other organizations
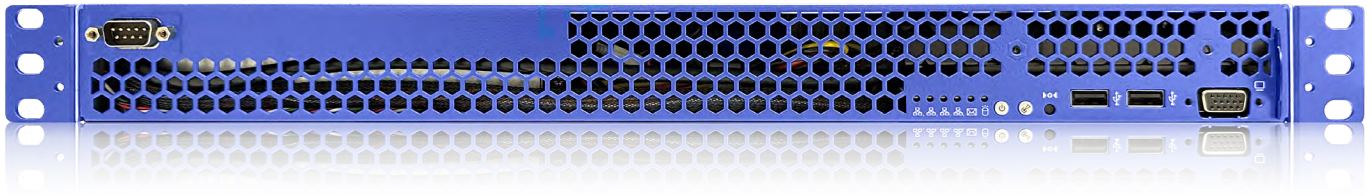
FEATURES

VPN

- Network-layer gateway (L3)
- Data-link layer gateway (L2 over IP VPN)
- IP address server
- VPN router
- Traffic masking due to encapsulating the traffic to UDP and TCP

Network functions

- Static routing
- Dynamic routing
- VLAN (dot1q) support
- Channel bonding (EtherChannel, LACP)
- Traffic classification and prioritization (QoS, ToS, DiffServ)

Firewall

- Stateful firewall
- Separate traffic filtering rules for unencrypted and encrypted IP traffic
- NAT/PAT
- Anti-spoofing
- Proxy server and third-party antivirus

Integrated services

- DNS server
- NTP server
- DHCP server
- DHCP-Relay
- UPS support
- Failover cluster
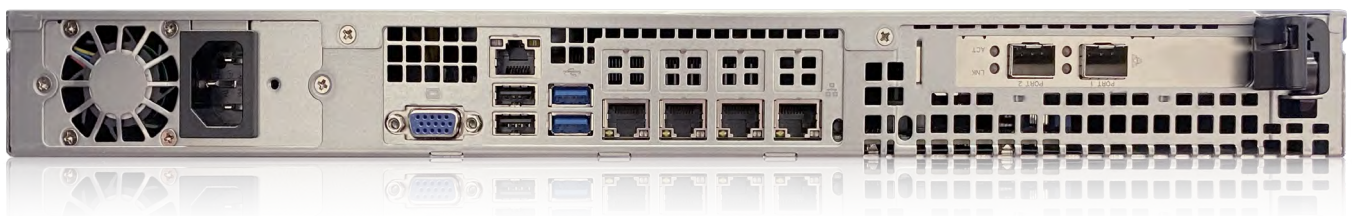
HARDWARE SPECIFICATIONS

Available model	SGA1000
Form factor	19" Rack 1U
Dimensions (H×W×D)	430 x 40 x 370 mm
Weight	7.2 kg
Power supply configuration	350 W
AC input voltage	100-240 V
Power Redundancy	N/A

PERFORMANCE

VPN throughput	Up to 920 Mbps
L2 over IP VPN throughput	Up to 895 Mbps
Number of connected available Protelion devices	1000
Recommended number of VPN clients (depending on available bandwidth)	10,000

Firewall

Firewall throughput (UDP 1518 b)	Up to 950 Mbps
Max number of concurrent connections	1,000,000

Network performance

Network interfaces (copper)	4× RJ45 1 Gbps
Network interfaces (optical)	No
Transceiver (included)	No
Wireless interfaces	No

Availability and reliability

Failover cluster	Yes
Unattended operation 24 × 7	Yes
Power management with an uninterruptible power supply	Yes
MTBF (Mean time between failures)	50,000 hours

ADVANTAGES

- Failover cluster
- Centralized and remote management (SSH, WebUI)
- Unattended operation 24×7
- Tamper Protection
- Support of modern, multiservice networks and full compatibility with:
  - DHCP, WINS, and DNS services
  - Dynamic address translation (NAT, PAT)
  - Multimedia protocols (SIP, H.323, SCCP, and others)

Head office

Server

PC/Employee workstation

PC/Employee workstation

Branch

PC/Employee workstation

SGA

SGA

Data transmission network

SGA

PC/Employee workstation

PC/Employee workstation

Branch

PC/Employee workstation

Phone
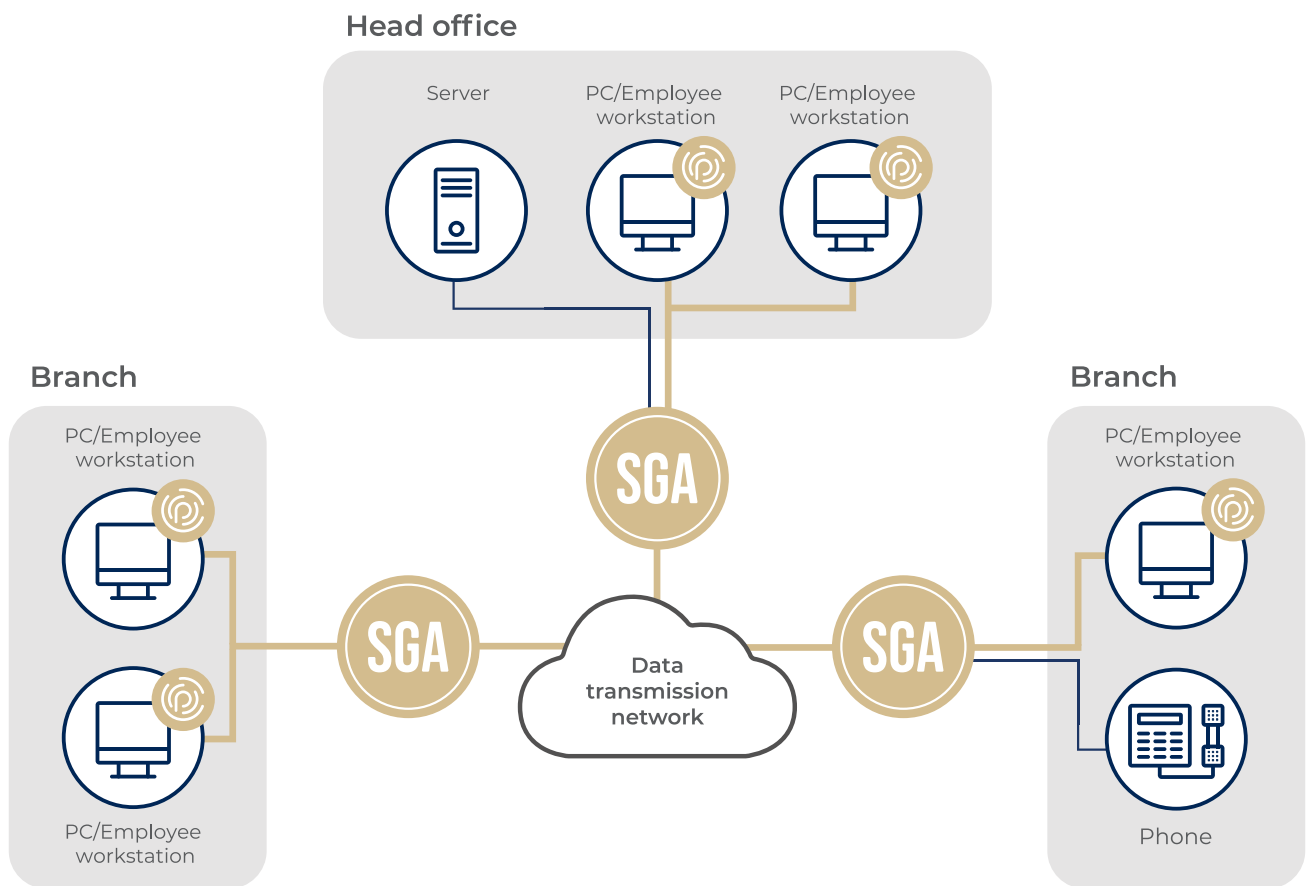
Protelion VPN -
Protect user devices against intruders

Protelion SGA1000 -
Security gateway for channel protection

Secure Connection

Plain Connection

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