

Security Gateway 4200 Series



Clavister SSP™ Security Services Platform
firewall • VPN termination • intrusion prevention • anti-virus
content filtering • traffic shaping • authentication

CLAVISTER™

Control Freaks



- **Firewall**
- **VPN**
- **Intrusion Detection & Prevention**
- **Web Content Filtering**
- **Antivirus****
- **Virtualization Technologies**
- **Bandwidth Management**
- **User Authentication**
- **Server Load Balancing**
- **High Availability Clustering**

Clavister Security Gateway 4200 Series

The Clavister Security Gateway 4200 series, equipped with 8 x Mini-Gbic (SFP), 2 x 1000BASE-TX and 4x100BASE-TX interfaces, is based on a purpose-built and highly optimized hardware platform, created using cutting-edge technology.

The Clavister Security Gateway 4200 series has been designed using a distributed processing hardware architecture to ensure high performance of plaintext and encrypted traffic. To further enhance VPN performance, a Cryptographic High Performance ASIC Co-Processor is used to accelerate encrypted packet processing and Public Key Computations.

The combination of a distributed processing architecture and a rich set of functionality, including Intrusion Detection & Prevention, VPN, Antivirus, Web Content Filtering, Server Load Balancing and Bandwidth Management, makes the 4200 Series an ideal choice for any customer in need of a high performance solution.

Size does matter after all

We know that the secret of producing secure, high-performing products lies in compactness and optimization. This is the reason why the 4200 Series is amongst the world's highest performing network security gateways. The Clavister Security Gateway 4200 Series has an amazing throughput of up to 2 Gigabits plaintext and 1 Gigabit VPN throughput per second. Still, the products don't require more rack space than one height unit. The entire software footprint powering these products is less than 1.000 Kbytes in size. Now that's small.

Product Highlights

Modularity as no two networks are alike

With the 4200 series you can set security policies any way you want - from having a specific, detailed policy for every single user in your organisation to filtering by application, credentials, time of day or any one of a hundred other variables.

Clavister CorePlus™ kernel

At the heart of the 4200 Series, just as all Clavister SSP products, lies an in-house developed, high-performance kernel with an invisible attack surface and air-tight component integration. We write every line of code ourselves to ensure that it all works perfectly together at staggeringly high performance levels.

This stands in direct contrast to most security products on the market which piece solutions together from several different sources.

Big on Performance - Low on maintenance

With the 4200 Series, just as with all other Clavister products, there are no time-consuming upgrades and service pack installations to be done (as is common with many other vendors). Any upgrades that are required (to handle newly emerging threats, for example) are provided by the Clavister Service Provisioning Network (CSPN).

Based on Clavister Service Oriented Security (SOS)™

Our goal is to allow customers the benefit of granularity and provide the greatest freedom to configure and optimize their security solution to exactly meet their specific needs. Our SOS design philosophy means that, where possible, we avoid integrating third-party code.

Feature list 4205 4210 4230 4250

System Performance and Capacity

Plaintext Throughput (Mbps)	400	500	1.000	2.000
AES/3DES Throughput (Mbps)	200/200	200/200	300/300	1.000/1.000
Concurrent Connections	128.000	256.000	512.000	1.000.000
Concurrent VPN Tunnels	750	1.000	2.000	5.000
Ethernet Interfaces	8xSFP (Mini-GBIC)*, 2x1000BASE-TX, 4x100BASE-TX			
Virtual Interfaces (VLAN)	256	512	1.024	2.048
Virtual Systems	10 + up to 500 additional Virtual Systems			
Virtual Routers	10 + up to 500 additional Virtual Routers			

Feature list 4200 Series

Mode of Operation

Layer 2 mode (transparent mode)	Yes
Layer 3 mode (route mode)	Yes
Policy-based NAT/PAT	Yes
Policy-based Server Load Balancing	Yes
Virtual IP	Yes

Firewall

Network Attack Detection/Prevention	Yes
DoS and DDoS Detection/Prevention	Yes
TCP Reassembly	Yes

VPN – Virtual Private Networking

Encryption	AES, 3DES, DES, Blowfish, CAST-128
Authentication	SHA-1, MD5
IKE Modes	Main, Aggressive
Perfect Forward Secrecy (DH Groups)	1,2,5
X.509 Certificates, Pre-Shared Keys	Yes
PKI Certificate Requests	PKCS#7, PKCS#11
Self-Signed Certificates	Yes
IPSec NAT Traversal (NAT-T)	Yes
VPN Policy Selection Through	Firewall Ruleset, Routing, PBR
VPN Tunnel Keep-alive	Yes
L2TP Client / Server (LNS)	Yes
PPTP Client / Server (PNS)	Yes

Intrusion Detection and Prevention

Stateful Pattern Matching	Yes
Protocol Anomaly	Yes
Rate Anomaly	Yes
Insertion/Evasion Protection	Yes
Dynamic IP Blacklisting	Yes
Automated Signature Updates	Yes
Stateful Signatures	Yes
Component Based Signatures	Yes
Application Blocking	Yes

Content Security

Web Content Filtering	Yes
Audit Mode	Yes
Blocking Mode	Yes
Classification Categories	> 30
URL White/Black Listing	Yes
Hourly Updates	Yes
Antivirus **	Yes
Stream-based Signatures	Yes
Automated Signature Updates	Yes
Per Device Signature Service	Yes

High Availability

Firewall and VPN state Synchronization	Yes
Device Failure Detection	Yes
Dead Link, Gateway and Interface Detection	Yes
Interface Failover	Yes
Route Failover	Yes
Average Failover time	< 800 ms

Feature list 4200 Series

Routing

Static Routing	Yes
Policy-based Routing (PBR)	Yes
OSPF / OSPF over VPN	Yes
Multicast - IGMP	Yes
Source Base Routing	Yes
GRE	Yes

IP Address Assignment

Static	Yes
DHCP Client, Server and Relay	Yes
Proxy ARP	Yes
PPPoE	Yes

Application Layer Gateways

FTP	Yes
H.323	Yes
NAT and SAT support	Yes
HTTP	Yes
SMTP **	Yes

Bandwidth Management

Policy-based Bandwidth Management	Yes
Guaranteed / Maximum Bandwidth	Yes
Dynamic Bandwidth Balancing	Yes
Priority Levels	Yes

Logging / Monitoring

Clavister Firewall Logger	Yes
Syslog	Yes
Real-time Log Viewer	Yes
Command Line Log Query Tools	Microsoft Windows, Linux
Log Export Format	CSV
Real-time Performance Monitoring	Yes
SNMP Polling/Traps	Yes

Management

Local Console	RS232
Command-line based Remote Management	Microsoft Windows, Linux
Graphical Enterprise Remote Management	Included in all products
Multi-Device Management	Yes
Remote Fail-safe Operation	Yes
Revision History	Complete Configurations

User Authentication

External RADIUS User Database	Yes, multiple servers
RADIUS Accounting	Yes
Web-based Authentication	Yes
Customizable HTTP(s) Front-end	Yes
XAuth VPN Authentication	Yes

Dimensions and Weight

H x W x D (mm)	44x440x440
Weight	7 kg
Form Factor	1U
Rack Mountable 19"	Yes
Power Supply (AC)	100-240V 50 to 60 Hz AC
Power Supply (DC)	36VDC to 72VDC

Regulatory and Safety Standards

Safety: UL	
EMC: FCC class A, CE class A, VCCI class A	

Environmental

Humidity: 20% to 95% noncondensing
Operational Temperature: 5 to 55 C
Vibration: 0.41 Grms2 (3-500 Hz)
MTBF: 5 years
Shock: 30 G

For detailed and current technical specifications, please visit: www.clavister.com
 * Disabled in entry-level product 4205 ** Release schedule to be announced

Warranty

All products in Clavister Security Gateway 4200 Series come with a two (2) years standard RMA warranty and 90 days Software Subscription covering all major and minor software releases counting from the Start Date

Start Date means the earlier of Product registration or ninety (90) days following shipment from Clavister.

Contact Information

General comments or questions: info@clavister.com
Sales questions: sales@clavister.com
Partner questions: partner@clavister.com
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Ordering information: order@clavister.com

About Clavister

Clavister is a leading developer of high-performance IT/IP security. The products, based on unique technology, include carrier-class firewalls and VPN solutions. They have been awarded preferred choice by international press and are in use today by thousands of satisfied customers. In short; In a world where people depend on information, Clavister provides complete security solutions more cost-efficient than any competitor, always with Your business in mind.

Clavister was founded 1997 in Sweden. Its R&D and headquarters is situated in Örnsköldsvik, Sweden and its solutions are marketed and sold through sales offices, distributors and resellers in Europe and Asia. Clavister also offers its technology to OEM manufacturers.

Clavister Security Gateway 4200 Series

Appliances

Clavister Security Gateway 4205 (AC)	CLA-APP-SG4205
Clavister Security Gateway 4205 (DC)	CLA-APP-SG4205-DC
Clavister Security Gateway 4205 Failover Unit (AC)	CLA-APP-SG4205-FO
Clavister Security Gateway 4205 Failover Unit (DC)	CLA-APP-SG4205-DC-FO
Clavister Security Gateway 4210 (AC)	CLA-APP-SG4210
Clavister Security Gateway 4210 (DC)	CLA-APP-SG4210-DC
Clavister Security Gateway 4210 Failover Unit (AC)	CLA-APP-SG4210-FO
Clavister Security Gateway 4210 Failover Unit (DC)	CLA-APP-SG4210-DC-FO
Clavister Security Gateway 4230 (AC)	CLA-APP-SG4230
Clavister Security Gateway 4230 (DC)	CLA-APP-SG4230-DC
Clavister Security Gateway 4230 Failover Unit (AC)	CLA-APP-SG4230-FO
Clavister Security Gateway 4230 Failover Unit (DC)	CLA-APP-SG4230-DC-FO
Clavister Security Gateway 4250 (AC)	CLA-APP-SG4250
Clavister Security Gateway 4250 (DC)	CLA-APP-SG4250-DC
Clavister Security Gateway 4250 Failover Unit (AC)	CLA-APP-SG4250-FO
Clavister Security Gateway 4250 Failover Unit (DC)	CLA-APP-SG4250-DC-FO

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Software Subscriptions – Major and Minor Releases

12 months / 36 Months

Clavister Security Gateway 4205	CLA-APP-SG4205-SS12/36
Clavister Security Gateway 4205 Failover Unit	CLA-APP-SG4205-FO-SS12/36
Clavister Security Gateway 4210	CLA-APP-SG4210-SS12/36
Clavister Security Gateway 4210 Failover Unit	CLA-APP-SG4210-FO-SS12/36
Clavister Security Gateway 4230	CLA-APP-SG4230-SS12/36
Clavister Security Gateway 4230 Failover Unit	CLA-APP-SG4230-FO-SS12/36
Clavister Security Gateway 4250	CLA-APP-SG4250-SS12/36
Clavister Security Gateway 4250 Failover Unit	CLA-APP-SG4250-FO-SS12/36

Hardware Replacement – Next Business Day Shipment and Software Subscription Bundle

12 months / 36 Months

Clavister Security Gateway 4205	CLA-APP-SG4205-SSHW12/36
Clavister Security Gateway 4205 Failover Unit	CLA-APP-SG4205-FO-SSHW12/36
Clavister Security Gateway 4210	CLA-APP-SG4210-SSHW12/36
Clavister Security Gateway 4210 Failover Unit	CLA-APP-SG4210-FO-SSHW12/36
Clavister Security Gateway 4230	CLA-APP-SG4230-SSHW12/36
Clavister Security Gateway 4230 Failover Unit	CLA-APP-SG4230-FO-SSHW12/36
Clavister Security Gateway 4250	CLA-APP-SG4250-SSHW12/36
Clavister Security Gateway 4250 Failover Unit	CLA-APP-SG4250-FO-SSHW12/36

UTM Services

IDP Signature Update Service – 12 Months

Clavister Security Gateway 4205	CLA-APP-SG4205-IDP12
Clavister Security Gateway 4210	CLA-APP-SG4210-IDP12
Clavister Security Gateway 4230	CLA-APP-SG4230-IDP12
Clavister Security Gateway 4250	CLA-APP-SG4250-IDP12

Antivirus Signature Update Service – 12 Months

Clavister Security Gateway 4205	CLA-APP-SG4205-KAV12
Clavister Security Gateway 4210	CLA-APP-SG4210-KAV12
Clavister Security Gateway 4230	CLA-APP-SG4230-KAV12
Clavister Security Gateway 4250	CLA-APP-SG4250-KAV12

Web Content Filtering Service – 12 Months

Clavister Security Gateway 4205	CLA-APP-SG4205-WCF12
Clavister Security Gateway 4210	CLA-APP-SG4210-WCF12
Clavister Security Gateway 4230	CLA-APP-SG4230-WCF12
Clavister Security Gateway 4250	CLA-APP-SG4250-WCF12

License upgrades

SG4205 to SG4230	License Upgrade	CLA-APP-SG4205-SG4210
SG4205 to SG4230	License Upgrade	CLA-APP-SG4205-SG4230
SG4205 to SG4250	License Upgrade	CLA-APP-SG4205-SG4250
SG4210 to SG4230	License Upgrade	CLA-APP-SG4210-SG4230
SG4210 to SG4250	License Upgrade	CLA-APP-SG4210-SG4250
SG4210 to SG4250	License Upgrade	CLA-APP-SG4210-SG4250

Spare Parts, Accessories and Virtualizations

SFP Gigabit Module (Mini-GBIC), 1000BASE-LX	CLA-APP-SFP-LX
SFP Gigabit Module (Mini-GBIC), 1000BASE-SX	CLA-APP-SFP-SX
SFP Gigabit Module (Mini-GBIC), 1000BASE-TX	CLA-APP-SFP-TX
Cold-Swappable AC Power Supply	CLA-APP-SG4200-ACPSU
Cold-Swappable DC Power Supply	CLA-APP-SG4200-DCPSU
Swappable Fan Module	CLA-APP-SG4200-FAN
Upgrade from 10 to 25 Virtual Systems and Routers	CLA-APP-SG4200-VSYS25
Upgrade from 25 to 50 Virtual Systems and Routers	CLA-APP-SG4200-VSYS50
Upgrade from 50 to 100 Virtual Systems and Routers	CLA-APP-SG4200-VSYS100
Upgrade from 100 to 250 Virtual Systems and Routers	CLA-APP-SG4200-VSYS250
Upgrade from 250 to 500 Virtual Systems and Routers	CLA-APP-SG4200-VSYS500

