

Security Gateway F500 Series



Amaranten SSP™ Security Services Platform

firewall • VPN termination • intrusion prevention • anti-virus
anti-spam • content filtering • traffic shaping • authentication

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Protecting Values



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

Amaranten Security Gateway F500 Series

The Amaranten Security Gateway F500 Series is a set of turnkey, hardware-based, security products designed for small and medium-sized enterprises or similar organisations.

The F500 Series is based on the award-winning Amaranten Security Services Platform (SSP™) which means super granular configurability, seamless scalability and a rich set of functionality.

Security and Scalability

By integrating best-in-class security functions such as Intrusion Detection & Prevention, Firewall, VPN, Anti-Virus, Anti-Spam and Web Content Filtering, the Amaranten Security Gateway F500 Series is able to protect your organization against everything from network layer attacks to application layer threats, and even viruses and worms.

Additionally, the F500 Series follows the Amaranten xPansion Lines™ concept which lets you start with the model that matches your current needs and allows scaling to match your growth without any 'rip & replace'.

Protect your Confidentiality

IPsec compliant VPN functionality is an integral feature of all Amaranten Security Gateway products. With up to 3000 simultaneous VPN tunnels and 180 Mbit/s VPN throughput, the Amaranten Security Gateway F500 Series is capable of meeting the most complex VPN needs.

Product Highlights

Modularity

With the F500 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 since we know that no two networks are alike.

Scalability

One of the most important aspects of the Amaranten Security Gateway F500 Series is the extreme scalability in combination with the Amaranten xPansion Lines licensing concept.

The F500 Series ranges from 220 to 440 Mbit/s plaintext and 95 to 180 Mbit/s VPN Throughput. That means that this product will be able to cater for all your performance and functionality needs today as well as in the future when your organisation grows.

Big on Performance - Low on Maintenance

With the F500 Series, just as with all other Amaranten 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 Amaranten Service Provisioning Network (CSPN).

Feature List

F500-L F500-U F500-P

System Performance and Capacity

Plaintext Throughput (Mbps)	220	330	440
VPN Throughput (Mbps)	95	180	180
Concurrent Connections	400,000	512,000	512,000
Concurrent VPN Tunnels	200	800	3,000
Ethernet Interfaces	6x 10/100/1000BASE-TX		
Number of Virtual (VLAN) Interfaces	256	256	512
Virtual Systems	5 + up to 25 additional Virtual Systems		
Virtual Routers	5 + up to 25 additional Virtual Routers		

Feature List

F500 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 Rules Set, 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 Whitelisting/Blacklisting	Yes
Anti-Virus	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

F500 Series

Routing

Static Routing	Yes
Policy-Based Routing (PBR)	Yes
OSPF/OSPF over VPN	Yes/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/TFTP	Yes/Yes
SIP/H.323	Yes/Yes
NAT and SAT support	Yes
HTTP	Yes
SMTP/POP3	Yes/Yes

Bandwidth Management

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

Logging/Monitoring

Amaranten 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
CHAP, PAP	Yes
Web-based Authentication	Yes
Customizable HTTP(s) Front-End	Yes
XAuth VPN Authentication	Yes

Dimensions and Weight

H x W x D (mm)	44 x 440 x 340
Weight	4.0 kg
Form Factor	1U
Rack Mountable 19"	Yes
Power Supply (AC)	100-240V 50-60Hz

Regulatory and Safety Standards

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

Environmental

Humidity: 20% to 95% non-condensing	
Operational Temperature: 5 to 55 C	
Vibration: 0.41 Grms2 (3-500 Hz)	
MTBF: 4 years	
Shock: 30 G	

For detailed and current technical specifications, please visit: www.amaranten.com

Warranty

All products in the Amaranten Security Gateway F500 Series come with a one (1) year standard RMA warranty and one (1) year Software Subscription covering all major and minor software releases counting from the Start Date.

Start Date means the earlier of Product registration following shipment from Amaranten.

Contact Information

General comments or questions: sales@amaranten.com

Sales questions:
If you require product information, price lists, etc.
sales@amaranten.com

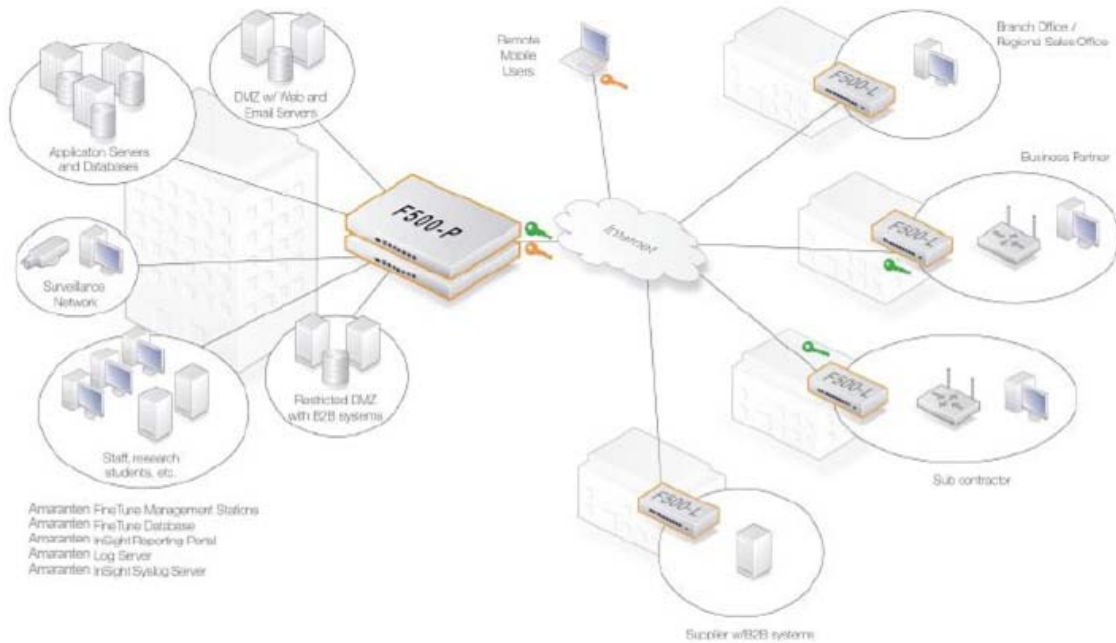
Partner questions:
Questions related to the Amaranten Partner Program
partner@amaranten.com

Technical Support:
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About Amaranten

Amaranten, a group member of Clavister is a leading provider of high performance, IT/IP security gateway solutions. Amaranten brings unsurpassed performance and comprehensive security solutions to IP networks. Amaranten security solutions are based on innovative European technology, targeted for Enterprise and Service Provider networks. Amaranten and its technology strategic alliance partner, Clavister AB, Sweden, have been recognized and awarded by International Trade Journals, and its security solutions are commercially deployed by thousands of satisfied global customers.

Amaranten was founded in Sweden 1997, and has strategic alliance with its sister company Clavister AB. Amaranten and Clavister security products and solutions are marketed, sold, and supported through sales offices, distributors, and resellers in Europe, Greater China, Asia Pacific, and the rest of the world.



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