



SecureSphere® High Performance Hardware Appliances

Scalable. Reliable. Flexible.



Imperva SecureSphere® appliances provide superior performance and resiliency for demanding data center environments. With fail open interfaces, SecureSphere platforms offer fast and cost-effective fail over. Out-of-band management enhances security, while front panel status messages and network interfaces improve manageability. SecureSphere appliances deliver a scalable, reliable and flexible platform to power Imperva's Web, Database, and File Security solutions.

Security for High Bandwidth Data Centers

Enterprises are running bandwidth intensive, content rich applications today that process more data than ever before. Organizations are leveraging high speed internet connections and using more SSL, meeting the demands of users that are continually accessing applications and data through a variety of clients. As a result, organizations need data center security solutions that can protect their high value applications and data assets, and keep pace with these market dynamics. To enable high throughput security, Imperva offers hardware appliances that meet the needs of large-scale data center environments.

Flexibility for High Throughput Environments

The X8510 and X10K appliances provide ultra-high performance by offering 5Gbps and 10Gbps throughput, respectively. These appliances are built on a common hardware platform with flexibility in mind. SecureSphere customers that start with an X8510 have the ability to later upgrade their appliance software, transforming the platform into an X10K with up to 10Gbps throughput. No matter how demanding of a data center you're running, Imperva has a high-performing platform to power SecureSphere's Web, Database, and File Security solutions.

High Performance Architecture

SecureSphere high performance hardware appliances allow organizations to consolidate devices and address future bandwidth requirements. Supporting multi-gigabit throughput and tens of thousands of transactions per second, low latency SecureSphere appliances can manage heavy traffic loads without impacting application or network performance.

Fault Tolerant System Design

To maximize system uptime, the SecureSphere X8510 and X10K models offer redundant, hot-swappable components including redundant power supplies and hard drives. In the event of a hardware failure, the redundant component will automatically take over, providing continuous system operations.

Expansion Options to Address Unique Business Needs

SecureSphere high performance appliances can be extended to provide remote, out-of-band management and monitoring, performance acceleration, and more with expansion modules.

Options include:

- Intelligent Platform Management Interface (IPMI)
- SSL acceleration
- Hardware Security Module (HSM)
- Fibre Channel interfaces

The Broadest Data Center Security Deployment Options

Imperva offers organizations the most flexible data center security solutions in the market, whether your data center is in the cloud or on-premise. The SecureSphere X8510 and X10K appliances deliver high performance, resiliency, and integrated fail open interfaces for enterprises running large scale applications and processing high volumes of data.

For information about our other hardware appliances, including the X1010, X2010, X2500, X4500, X6500 and our Virtual Appliances, please see our [SecureSphere Appliances Datasheet](#).

Specification		X8510	X10K
Fault Tolerance		Dual Power Supply	Dual Power Supply
Throughput		5 Gbps	10 Gbps
DAM TPS, for sizing ¹		36,000	72,000
RSA/Sec (2048bit)		9000	9000
Latency		< 5ms	< 5ms
Interface Module Slot 1	Default	4 Copper Left	2 x 10G SR Left
	Optional	4 Copper OR 4 x 1G OR 2 x 10G SR/LR	4 Copper OR 4 x 1G OR 2 x 10G SR/LR
Interface Module Slot 2	Default	4 Copper Right	N/A
	Optional	4 Copper OR 4 x 1G OR 2 x 10G SR/LR	4 Copper OR 4 x 1G OR 2 x 10G SR/LR
Max Network Segments		Bridge (4), Reverse Proxy (9), Non-Inline	Bridge (4), Reverse Proxy (9), Non-Inline
Inline Fail Open (bridging only)		Up to 4 Bypass Segments	Up to 4 Bypass Segments
Out-of-Band Port Management		2 x 100/1000 Copper	2 x 100/1000 Copper
Intelligent Platform Management Interface (IPMI) Port		1 Copper IPMI	1 Copper IPMI
Hard Drive		3 x 2TB RE4 (RAID 5)	3 x 2TB RE4 (RAID 5)
Memory		128 GB DDR3	128 GB DDR3
Serial Port		Console RJ45	Console RJ45
USB Port		2 ports	2 Ports
Out-of-Band Port Management		2 x 100/1000 Copper	2 x 100/1000 Copper
SSL Acceleration		Optional SSL High performance	Optional SSL High performance
Add-Ons		Default: IPMI // Optional: Fiber Channel, HSM	Default: IPMI // Optional: Fiber Channel, HSM
Power Supply		Dual 600W	Dual 600W
AC Power		100-240V	100-240V
Typical Consumption (W)		Idle: 187.53 // Full: 209.73	Idle: 185.11 // Full: 206.55
Typical Heat Output (BTU)		Idle: 641.34 // Full: 717.29	Idle: 633.07 // Full: 706.40
Form Factor		2U	2U
Dimensions		88 x 446 x 645mm	88 x 446 x 645mm
Weight		19.25Kg	18.95Kg
Operating Environment		Temperature: 5° - 40° C Relative Humidity 20% - 90%	Temperature: 5° - 40° C Relative Humidity 20% - 90%
Storage Environment		Temperature: 0° - 70° C Relative Humidity 20% - 90%	Temperature: 0° - 70° C Relative Humidity 20% - 90%
Safety Agency Approval		CE, TUV, FCC, CB, VCCI, RCM	CE, TUV, FCC, CB, VCCI, RCM
Supported SecureSphere Products		Web Application Firewall Database Activity Monitor Database Firewall	Web Application Firewall Database Activity Monitor Database Firewall
Database Agents Included		100	100
Database Vulnerability Assessments Included		800	1600

¹ The Imperva Database Activity Monitor TPS metric is: number of SQL requests to a database, per second. This number is used for sizing (i.e., determining) the SecureSphere appliances required for a given deployment.

