



SecureSphere® Appliances

Scalable. Reliable. Flexible.

Imperva SecureSphere® appliances provide superior performance and resiliency for demanding network 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 and database security solutions.

High Performance Architecture

SecureSphere appliances offer ultra-high performance, allowing organizations to consolidate device management and address future bandwidth requirements. Supporting multi-gigabit throughput, tens of thousands of transactions per second, and sub-millisecond latency, SecureSphere appliances can manage heavy traffic loads without impacting application or network performance.

Fault Tolerant System Design

To maximize system uptime, the SecureSphere X2500, X4500, and X6500 models offer redundant, hot-swappable components including redundant power supplies, hard drives, and fans. In the event of a hardware failure, the redundant component will automatically take over, providing continuous system operations.

Expansion Options for Unique Business Needs

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

Options include:

- » *Lights-Out-Management (LOM)*
- » *Hardware Security Module (HSM)*
- » *SSL acceleration*
- » *Fibre channel interfaces*

SecureSphere Virtual Appliances

SecureSphere Virtual Appliances deliver the complete SecureSphere product line in a software-only form factor. Expanding customers deployment options, SecureSphere Virtual Appliances provide a cost effective and flexible way to deploy SecureSphere's data security solutions and align with an organization's data center virtualization strategy.



SecureSphere Data Security Hardware Appliances



Specification		X6500	X4500	X2500
Fault Tolerance		Dual, hot-swap hard drives, power supplies, and fans	Dual, hot-swap hard drives, power supplies, and fans	Dual, hot-swap hard drives, power supplies, and fans
Throughput (Web and Database security products)		2 Gbps	1 Gbps	500 Mbps
Throughput (File Security products ¹)		Not available	Up to 4 Gbps	Up to 2 Gbps
Latency		Sub-millisecond	Sub-millisecond	Sub-millisecond
Interface Module Slot 1	Default	4 x Copper	4 x Copper	4 x Copper
	Optional	2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR	2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR	2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR
Interface Module Slot 2	Default	4 x Copper	None	None
	Optional	2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR	4 x Copper OR 2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR	4 x Copper OR 2 x 1G Fiber SX OR 2 x 10G Fiber SR/LR
Max Network Segments		(4) Bridge; (9) Proxy, Non-inline	(4) Bridge; (9) Proxy, Non-inline	(4) Bridge; (9) Proxy, Non-inline
Inline Fail Open (Bridging only)		Up to 4 bypass segments	Up to 4 bypass segments	Up to 4 bypass segments
Hard Drive		2 hot-swap 1 TB	2 hot-swap 1 TB	2 hot-swap 500 GB
Memory		8 GB	8 GB	4 GB
Serial Port		RJ45 connector	RJ45 connector	RJ45 connector
USB Port		2	2	2
SSL Acceleration		Included	Optional	Optional
Fibre Channel, LOM or HSM		Optional	Optional	Optional
Power Supply		Dual 400 W	Dual 400 W	Dual 400 W
AC Power		100-240V, 50-60 Hz	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Typical Consumption		290 W	210 W	190 W
Typical Heat Output		990 BTU/Hr	720 BTU/Hr	650 BTU/Hr
Form Factor		2U	2U	2U
Dimensions		17.4 x 20.1 x 3.46 inches 443 x 512 x 88 mm	17.4 x 20.1 x 3.46 inches 443 x 512 x 88 mm	17.4 x 20.1 x 3.46 inches 443 x 512 x 88 mm
Weight		53.3 lbs (24.2 Kg)	51.10 lbs (23.2 Kg)	50.44 lbs (22.9 Kg)
Operating Environment		Temperature: 5° - 40° C Relative Humidity: 20% - 90%	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%	Temperature: 0° - 70° C Relative Humidity: 20% - 90%
Safety Agency Approval		CE/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC
Supported SecureSphere Products		Web Application Firewall Database Activity Monitoring Database Firewall	Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall	Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall Discovery and Assessment Server
Database Agents Included¹		100	50	25
File Agents Included		Not available	200	100
Database Vulnerability Assessments Included²		400	200	100
Number of users included with File Security products³		Not available	1,000	250 or 500

¹ Database agents only included with SecureSphere Database Activity Monitoring and Database Firewall.

² Database assessments only included with Discovery and Assessment Server, Database Activity Monitoring, and Database Firewall.

³ File Security products: File Activity Monitoring and File Firewall.

SecureSphere Data Security Hardware Appliances



Specification	X2000	X1000
Fault Tolerance	Not available	Not available
Throughput	500 Mbps	100 Mbps
Latency	Sub-millisecond	Sub-millisecond
Interface Module Slot 1	4 x Copper	4 x Copper
Max Network Segments	(2) Bridge; (5) Proxy, Non-inline	(2) Bridge; (5) Proxy, Non-inline
Inline Fail Open (Bridging only)	2 bypass segments	2 bypass segments
Hard Drive	500 GB	500 GB
Memory	4 GB	2 GB
Serial Port	RJ45 connector	RJ45 connector
USB Port	2	2
SSL Acceleration	Optional	Optional
Power Supply	250 W	250 W
AC Power	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Typical Consumption	110 W	80 W
Typical Heat Output	375 BTU/Hr	275 BTU/Hr
Form Factor	1U	1U
Dimensions	17 x 14 x 1.73 inches 431.8 x 355.2 x 44 mm	17 x 14 x 1.73 inches 431.8 x 355.2 x 44 mm
Weight	14.1 lbs (6.4 Kg)	14.1 lbs (6.4 Kg)
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/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC
Supported SecureSphere Products	Web Application Firewall Discovery and Assessment Server	Web Application Firewall Discovery and Assessment Server
Database Vulnerability Assessments Included¹	100	25

¹ Database vulnerability assessments only included with Discovery and Assessment Server.

SecureSphere Management Appliances

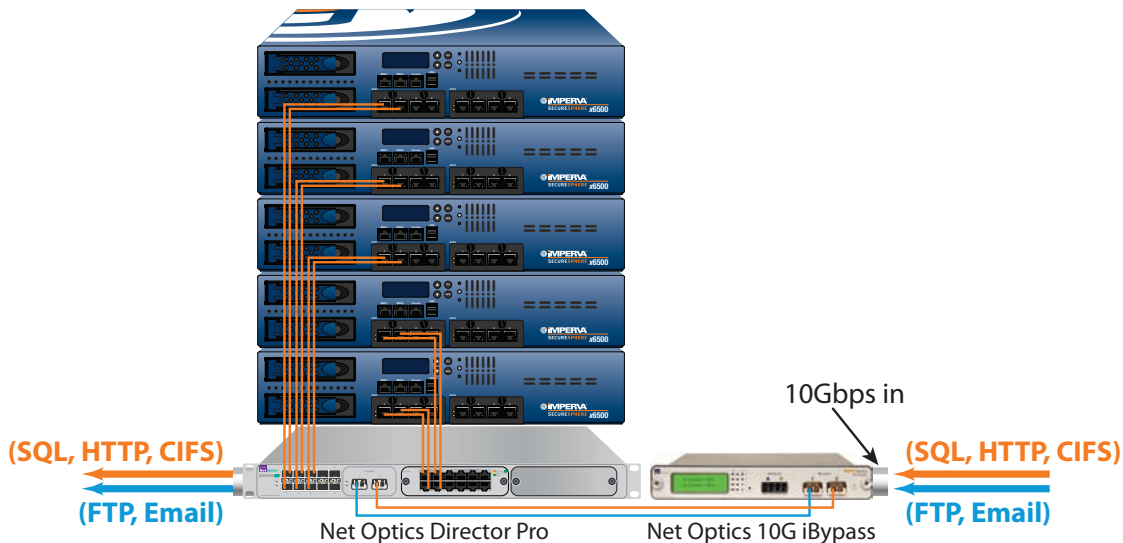
The SecureSphere MX Management Server unifies the configuration, monitoring, auditing and reporting of large, distributed SecureSphere gateway deployments. The MX Management Server hardware satisfies the most stringent performance, security and reliability requirements. Expansion options plus redundant fans, power supplies and hard drives make the M150 model the ideal choice for demanding data center environments.



Specification	M150	M100
Fault Tolerance	Dual, hot-swap hard drives, power supplies, and fans	Not available
Interface Module Slot 1	2 x 1Gb Copper	2 x 1Gb Copper
Memory	4 GB	4 GB
Hard Drive	2 hot-swap 300 GB	300 GB
Serial Port	RJ45 connector	RJ45 connector
USB Port	2	2
LOM or Fibre Channel	Optional	Not available
Power Supply	Dual 400 W	250 W
AC Power	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Typical Consumption	190 W	110 W
Typical Heat Output	650 BTU/Hr	375 BTU/Hr
Form Factor	2U	1U
Dimensions	17.4 x 20.1 x 3.46 inches 443 x 512 x 88 mm	17 x 14 x 1.73 inches 431.8 x 355.2 x 44 mm
Weight	50 lbs (22.7 Kg)	14.1 lbs (6.4 Kg)
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/FCC/eTUVus/VCCI/CCC/KCC	CE/FCC/eTUVus/VCCI/CCC/KCC

SecureSphere Stack (powered by Net Optics)

SecureSphere Stack (powered by Net Optics) provides a scalable, and high performance data security solution for bandwidth intensive applications. By leveraging Net Optics Director Pro's dynamic load balancing and intelligent protocol filtering technology, 10G inbound traffic is optimally distributed to a stack of up to five SecureSphere X6500 gateways for maximum security efficiency and performance. Net Optics Director Pro forwards only relevant protocols to SecureSphere gateways ensuring SecureSphere is only inspecting relevant traffic while bypassing all other traffic flows. Net Optics 10G iBypass Switch provides fail open capability enabling active in-line connectivity. SecureSphere Stack ensures organizations can easily scale SecureSphere Web, Database, and File Security deployments for network intensive applications and cloud deployments.



Specification	Net Optics Director Pro	Net Optics 10 Gigabit iBypass Switch
Throughput	Up to 10Gbps aggregated throughput (Web, Database, File)	Up to 10Gbps aggregated throughput (Web, Database, File)
Interfaces	10 x SFP-based 1Gbps network ports 2 x XFP-based 10Gbps network ports 12 x 1Gbps network ports network ports	2 x Duplex LC monitoring ports 2 x Duplex LC network ports
Max Network Segments	11 bridges	1 bridge
Inline Fail Open (Bridging only)	Up to 11 bypass segments	1 bypass segment
Fault Tolerance	Hot-swappable Power Supplies	Not applicable
AC Power	100-240VAC, 47-63Hz	100-240VAC, 47-63Hz
Form Factor	Surface or 19" rack mount (1U)	Not applicable
Dimensions	19 x 23.4 x 1.72 inches 483 x 594 x 44 mm	6.5 x 14 x 1.125 inches 165.1 x 355.6 x 28.6 mm
Weight	18 lbs (8.2 Kg)	Not applicable
Operating Environment	Temperature: 0° - 40° C Relative Humidity: 10% - 95%	Temperature: 5° - 40° C Relative Humidity: 10% - 95%
Storage Environment	Temperature: -10° - 70° C Relative Humidity: 10% - 95%	Temperature: -10° - 70° C Relative Humidity: 10% - 95%
Safety Agency Approval	CE/FCC/VCCI/C-Tick/Fully RoHS and WEEE compliant	Fully RoHS compliant

Refer to Net Optics Director Pro and iBypass Switch Datasheets for more detailed specifications.

SecureSphere Virtual Appliances

SecureSphere Virtual Appliance provides the complete SecureSphere product line in a cost effective, simple, and easy to install virtual appliance. IT organizations can now choose between a physical or virtual appliance deployment of SecureSphere to align with their data center virtualization strategy.

With SecureSphere Virtual Appliances, customers can leverage existing hardware for appliance consolidation, maximize the utilization of their servers and network infrastructure and cut power, cooling and support costs. The simplicity and flexibility of SecureSphere Virtual Appliances enable organizations of any size to quickly provision and configure new security services as requirements change.

Within a VMware ESX server environment, SecureSphere Virtual Appliances offer better inspection of inter-VM traffic and support of VMotion for addressing disaster recovery and workload migration requirements.

	V4500	V2500	V1000	VM150
Performance				
Throughput (Web and Database security products)	Up to 1 Gbps	Up to 500 Mbps	Up to 100 Mbps	Not applicable
Throughput (File Security products ¹)	Up to 4 Gbps	Up to 2 Gbps	Not applicable	Not applicable
Number of users included with File Security products¹	1,000	250 or 500	Not applicable	Not applicable
Supported SecureSphere Products	Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall	Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall	Web Application Firewall	MX Management Server
Minimum Requirements per physical host				
Hypervisor	VMware ESX/ESXi 3.5/4.0			VMware ESX/ESXi 3.5/4.0
Processor	Dual core server Intel VTx or AMD-V			Dual core server Intel VTx or AMD-V
Memory	2 GB			2 GB
Hard Drive	250 GB			250 GB
Network Interface	Hypervisor-supported network interface card			Hypervisor-supported network interface card
Minimum Requirements for each guest SecureSphere Virtual Appliance				
CPU	4	2	1	2
Memory	8 GB	4 GB	2 GB	4 GB
Disk Space	80 GB	80 GB	80 GB	80 GB

¹ File Security products: File Activity Monitoring and File Firewall.

* Actual performance dependent upon underlying hardware and virtual infrastructure

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