



# SecureSphere® Appliances

## Scalable. Reliable. Flexible.

Imperva SecureSphere® appliances provide superior performance and resiliency for demanding datacenter 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.

### 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 organizations' data center virtualization strategies.



Appliances

## SecureSphere Data Security Hardware Appliances



Specification		X6500	X4500	X2500
<b>Fault Tolerance</b>		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
<b>Throughput</b>	(Web, Database and SharePoint security products) <sup>1</sup>	2 Gbps	1 Gbps	500 Mbps
	(File Activity Monitoring and File Firewall)	Not available	Up to 4 Gbps	Up to 2 Gbps
<b>Latency</b>		Sub-millisecond	Sub-millisecond	Sub-millisecond
<b>Interface Module Slot 1</b>	Default	4 x Copper	4 x Copper	4 x Copper
	Optional	2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR	2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR	2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR
<b>Interface Module Slot 2</b>	Default	4 x Copper	None	None
	Optional	2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR	4 x Copper <b>OR</b> 2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR	4 x Copper <b>OR</b> 2 x 1G Fiber SX <b>OR</b> 2 x 10G Fiber SR/LR
<b>Max Network Segments</b>		(4) Bridge; (9) Proxy, Non-inline	(4) Bridge; (9) Proxy, Non-inline	(4) Bridge; (9) Proxy, Non-inline
<b>Inline Fail Open (Bridging only)</b>		Up to 4 bypass segments	Up to 4 bypass segments	Up to 4 bypass segments
<b>Hard Drive</b>		2 hot-swap 1 TB	2 hot-swap 1 TB	2 hot-swap 500 GB
<b>Memory</b>		8 GB	8 GB	4 GB
<b>Serial Port</b>		RJ45 connector	RJ45 connector	RJ45 connector
<b>USB Port</b>		2	2	2
<b>SSL Acceleration</b>		Included	Optional	Optional
<b>Fibre Channel, LOM or HSM</b>		Optional	Optional	Optional
<b>Power Supply</b>		Dual 400 W	Dual 400 W	Dual 400 W
<b>AC Power</b>		100-240V, 50-60 Hz	100-240V, 50-60 Hz	100-240V, 50-60 Hz
<b>Typical Consumption</b>		290 W	210 W	190 W
<b>Typical Heat Output</b>		990 BTU/Hr	720 BTU/Hr	650 BTU/Hr
<b>Form Factor</b>		2U	2U	2U
<b>Dimensions</b>		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
<b>Weight</b>		53.3 lbs (24.2 kg)	51.10 lbs (23.2 kg)	50.44 lbs (22.9 kg)
<b>Operating Environment</b>		Temperature: 5° - 40° C Relative Humidity: 20% - 90%	Temperature: 5° - 40° C Relative Humidity: 20% - 90%	Temperature: 5° - 40° C Relative Humidity: 20% - 90%
<b>Storage Environment</b>		Temperature: 0° - 70° C Relative Humidity: 20% - 90%	Temperature: 0° - 70° C Relative Humidity: 20% - 90%	Temperature: 0° - 70° C Relative Humidity: 20% - 90%
<b>Safety Agency Approval</b>		CE/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC
<b>Supported SecureSphere Products</b>		<b>Web Application Firewall Database Activity Monitoring Database Firewall SecureSphere for SharePoint</b>	<b>Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall SecureSphere for SharePoint</b>	<b>Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall Discovery and Assessment Server SecureSphere for SharePoint</b>
<b>Database Agents Included<sup>2</sup></b>		100	50	25
<b>File Agents Included</b>		Not available	200	100
<b>Database Vulnerability Assessments Included<sup>3</sup></b>		400	200	100
<b>Number of users included with File Activity Monitoring and File Firewall</b>		2,000 SecureSphere for SharePoint only	1,000	250 or 500

<sup>1</sup> Throughput figures represent layer 7 Web application firewall and database security performance.

<sup>2</sup> Database agents only included with SecureSphere Database Activity Monitoring, Database Firewall and SecureSphere for SharePoint.

<sup>3</sup> Database assessments only included with Discovery and Assessment Server, Database Activity Monitoring, and Database Firewall.

## SecureSphere Data Security Hardware Appliances



Specification	X2010	X1010
<b>Fault Tolerance</b>	Not available	Not available
<b>Throughput<sup>1</sup></b>	500 Mbps	100 Mbps
<b>Latency</b>	Sub-millisecond	Sub-millisecond
<b>Interfaces</b>	4 x 1G Copper 2 x 1G Copper (for management)	4 x 1G Copper 2 x 1G Copper (for management)
<b>Max Network Segments</b>	(2) Bridge; (5) Proxy, Non-inline	(2) Bridge; (5) Proxy, Non-inline
<b>Inline Fail Open (Bridging only)</b>	2 bypass segments	2 bypass segments
<b>Hard Drive</b>	1 TB	1 TB
<b>Memory</b>	8 GB	8 GB
<b>Serial Port</b>	RJ45 connector	RJ45 connector
<b>USB Port</b>	2	2
<b>SSL Acceleration</b>	Optional	Optional
<b>Power Supply</b>	250 W	250 W
<b>AC Power</b>	100-240V, 50-60 Hz	100-240V, 50-60 Hz
<b>Typical Consumption</b>	110 W	110 W
<b>Typical Heat Output</b>	375 BTU/Hr	375 BTU/Hr
<b>Form Factor</b>	1U	1U
<b>Dimensions</b>	17.45 x 16 x 1.73 inches 443 x 406 x 44 mm	17.45 x 16 x 1.73 inches 443 x 406 x 44 mm
<b>Weight</b>	14.1 lbs (6.4 kg)	14.1 lbs (6.4 kg)
<b>Operating Environment</b>	Temperature: 5° - 40° C - Relative Humidity 20% - 90%	Temperature: 5° - 40° C Relative Humidity: 20% - 90%
<b>Storage Environment</b>	Temperature: 0° - 70° C Relative Humidity 20% - 90%	Temperature: 0° - 70° C Relative Humidity: 20% - 90%
<b>Safety Agency Approval</b>	CE/FCC/cTUVus/VCCI/CCC/KCC/CB	CE/FCC/cTUVus/VCCI/CCC/KCC/CB
<b>Supported SecureSphere Products</b>	<b>Web Application Firewall Discovery and Assessment Server</b>	<b>Web Application Firewall Discovery and Assessment Server</b>
<b>Database Vulnerability Assessments Included<sup>2</sup></b>	100	25

<sup>1</sup> Throughput figures represent layer 7 Web application firewall performance

<sup>2</sup> Database vulnerability assessments only included with Discovery and Assessment Server

## SecureSphere Management Appliances

Imperva's SecureSphere management products deliver superior performance, scalability and unified management capabilities for any size deployment. Whether you're managing a small data center, or a large number of business units, data centers, or customers, SecureSphere products give you the visibility and control to minimize administrative overhead and ensure a strong data security posture.

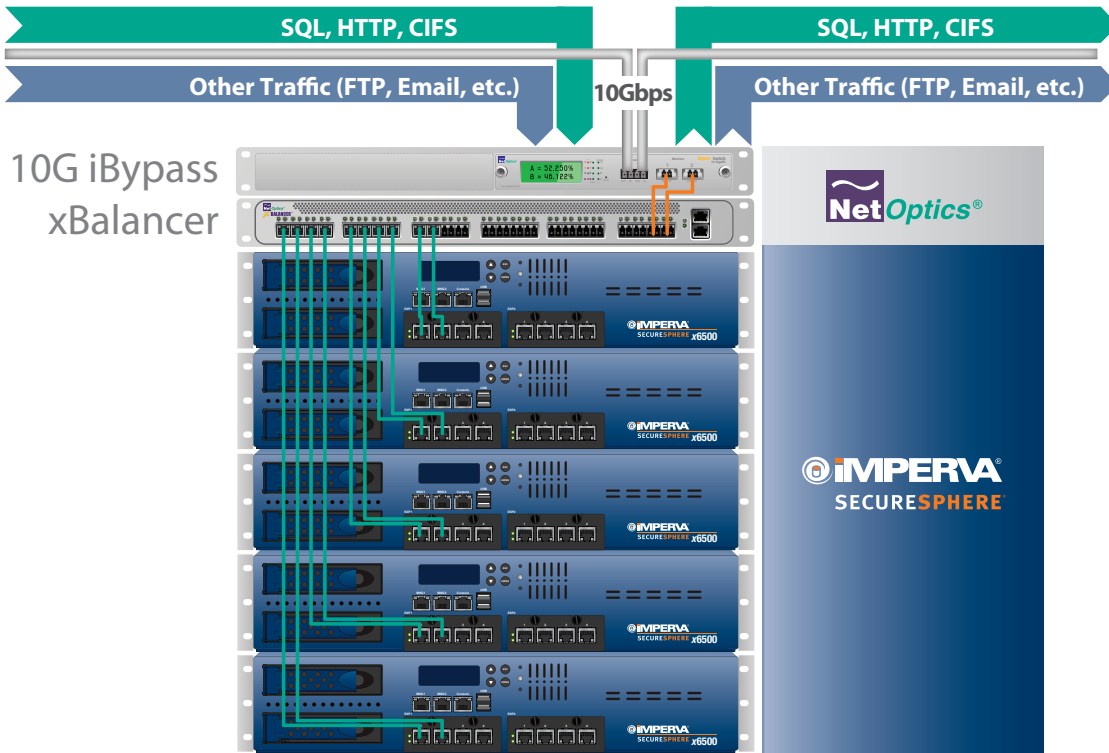
The Management Appliances support the SecureSphere MX Management Server and SecureSphere Operations Manager products.



Specification	M150	M110
<b>Fault Tolerance</b>	Dual, hot-swap hard drives, power supplies, and fans	Not available
<b>Interface Module Slot 1</b>	2 x 1Gb Copper	2 x 1Gb Copper
<b>Memory</b>	4 GB	8 GB
<b>Hard Drive</b>	2 hot-swap 300 GB	500 GB
<b>Serial Port</b>	RJ45 connector	RJ45 connector
<b>USB Port</b>	2	2
<b>LOM or Fibre Channel</b>	Optional	Not available
<b>Power Supply</b>	Dual 400 W	250 W
<b>AC Power</b>	100-240V, 50-60 Hz	100-240V, 50-60 Hz
<b>Typical Consumption</b>	190 W	110 W
<b>Typical Heat Output</b>	650 BTU/Hr	375 BTU/Hr
<b>Form Factor</b>	2U	1U
<b>Dimensions</b>	17.4 x 20.1 x 3.46 inches 443 x 512 x 88 mm	17.45 x 16 x 1.73 inches 443 x 406 x 44 mm
<b>Weight</b>	50 lbs (22.7 kg)	14.1 lbs (6.4 kg)
<b>Operating Environment</b>	Temperature: 5° - 40° C Relative Humidity 20% - 90%	Temperature: 5° - 40° C Relative Humidity 20% - 90%
<b>Storage Environment</b>	Temperature: 0° - 70° C Relative Humidity 20% - 90%	Temperature: 0° - 70° C Relative Humidity 20% - 90%
<b>Safety Agency Approval</b>	CE/FCC/cTUVus/VCCI/CCC/KCC	CE/FCC/cTUVus/VCCI/CCC/KCC
<b>Supported SecureSphere Products</b>	<b>MX Management Server</b> <b>SecureSphere Operations Manager</b>	<b>MX Management Server</b>

## SecureSphere Stack (powered by Net Optics)

The SecureSphere Stack, powered by Net Optics, provides a scalable, and high performance data security solution for bandwidth intensive applications. The SecureSphere Stack leverages Net Optics xBalancer to distribute 10 Gbps or more of inbound traffic across multiple SecureSphere X6500 gateways. Net Optics xBalancer forwards only relevant protocols to the SecureSphere gateways, ensuring SecureSphere is only inspecting Web, database, or file traffic. The SecureSphere Stack ensures organizations can easily scale SecureSphere Web, database, and file security deployments for high-bandwidth applications and cloud deployments.



Specification	Net Optics xBalancer	Net Optics 10 Gigabit iBypass Switch
<b>Throughput</b>	Up to 480Gbps aggregated throughput	Up to 10Gbps aggregated throughput
<b>Interfaces</b>	24 x SFP 1G/SFP+ 10 G Fiber or Copper 1 x 10/100/1000 RJ45 Copper for Management 1 x Cisco DB9 to RJ45 for CLI Configuration	2 x Duplex LC monitoring ports 2 x Duplex LC network ports
<b>Fault Tolerance</b>	Hot-swappable power supplies and fans	Redundant power supplies, fail open or close
<b>Power</b>	AC Input: 100-240VAC, 50/60 Hz DC Input: -40VDC nominal, 13.9 A	100-240VAC, 1AMP, 47-63Hz
<b>Form Factor</b>	Surface or 19" rack mount (1U)	Rack mountable using a rack panel frame (2 slots)
<b>Dimensions</b>	19.7" deep x 19.0" wide x 1.75" high 500 x 483 x 44 mm	6.5" wide x 14" deep x 1.125" high 165.1 x 355.6 x 28.6 mm
<b>Weight</b>	13.5 lbs (6.12 kg)	2.85 lbs (1.29 kg)
<b>Operating Environment</b>	Temperature: 0° - 40° C Relative Humidity: 10% - 95%	Temperature: 0° - 40° C Relative Humidity: 10% - 95%
<b>Storage Environment</b>	Temperature: -10° - 70° C Relative Humidity: 10% - 95%	Temperature: -10° - 70° C Relative Humidity: 10% - 95%
<b>Safety Agency Approval</b>	MET, CE, FCC, VCCI, C-Tick, KC, ME06, CCC, AR, RoHS, and WEEE compliant	Fully RoHS compliant, UL 60950-1, CSA C22.2 No.60950-1, IEC 60950-1:2005 (2nd Edition), EN 60950-1:2006

Refer to Net Optics xBalancer 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 physical or virtual SecureSphere deployments depending on their datacenter 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 new security services as requirements change.

Within a VMware ESX server environment, SecureSphere Virtual Appliances can inspect inter-VM traffic and support disaster recovery and workload migration requirements.

	V4500	V2500	V1000	VM150
<b>Performance</b>				
<b>Throughput</b> (Web, Database and SharePoint security products <sup>1</sup> )	Up to 1 Gbps	Up to 500 Mbps	Up to 100 Mbps	Not applicable
<b>Throughput</b> (File Activity Monitoring and File Firewall <sup>2</sup> )	Up to 4 Gbps	Up to 2 Gbps	Not applicable	Not applicable
<b>Number of users included with File Security products<sup>1</sup></b>	1,000	250 or 500	Not applicable	Not applicable
<b>Supported SecureSphere Products</b>	<b>Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall SecureSphere for SharePoint</b>	<b>Web Application Firewall Database Activity Monitoring Database Firewall File Activity Monitoring File Firewall SecureSphere for SharePoint</b>	<b>Web Application Firewall</b>	<b>MX Management Server SecureSphere Operations Manager</b>
<b>Minimum Requirements per physical host</b>				
<b>Hypervisor</b>	VMware ESX/ESXi 3.5/4.0/5.0			VMware ESX/ESXi 3.5/4.0/5.0
<b>Processor</b>	Dual core server Intel VTx or AMD-V			Dual core server Intel VTx or AMD-V
<b>Memory</b>	2 GB			2 GB
<b>Hard Drive</b>	250 GB			250 GB
<b>Network Interface</b>	Hypervisor-supported network interface card			Hypervisor-supported network interface card
<b>Minimum Requirements for each guest SecureSphere Virtual Appliance</b>				
<b>CPU</b>	4	2	1	2
<b>Memory</b>	8 GB	4 GB	2 GB	4 GB
<b>Disk Space</b>	80 GB	80 GB	80 GB	80 GB

<sup>1</sup> SecureSphere for SharePoint not supported on V1000.

<sup>2</sup> File Security products: File Activity Monitoring, File Firewall and SecureSphere for SharePoint.

\* Actual performance dependent upon underlying hardware and virtual infrastructure

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