

Product Brief

Imperva Hardware Appliances

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THALES
Building a future we can all trust

Scalable. Reliable. Flexible.

Imperva Hardware appliances deliver a hardened, scalable, reliable and flexible platform to power Imperva Web Application Firewall. With multi-gigabit throughput, fail open interfaces, secure out-of-band management, and low latency, Imperva appliances are high assurance, fast, cost-effective, and easy to manage.

High Performance Architecture

Imperva Hardware Appliances offer exceptional performance, allowing organizations to consolidate device management and address future bandwidth requirements. Imperva appliances can manage heavy traffic loads without impacting application or network performance.

Fault Tolerant Hardware Design

To maximize system uptime, Imperva appliances 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.

Flexible Deployment Options:

Imperva Hardware Appliances can manage heavy traffic loads without impacting application or network performance. For customers who prefer a software-only form factor, Imperva provides a cost effective and flexible virtual appliance option to deploy Imperva security solutions on an enterprise virtualization platform or in an Infrastructure as a Service (IaaS) cloud environment.



Flexible Expansion Options to Address Unique Needs

The appliances are built on a common hardware platform with flexibility in mind. Imperva appliances can be extended to provide remote, out-of-band management and monitoring, performance acceleration, and more with expansion modules.

Options include:

- 2nd Network Card Slot
- Future-Proof Technology
- Hardware Security Module (HSM)
- SSL acceleration
- Fiber Channel interfaces

Imperva Hardware Appliance Specifications - 2U Form Factor					
Specifications	X10K3 (WAF Gateway only)	X8530 (WAF Gateway only)	X6530	X4530	X2530
Supported On-Prem Gateways	Web Application Firewall	Web Application Firewall	Web Application Firewall	Web Application Firewall	Web Application Firewall
			Database Activity Monitoring	Database Activity Monitoring	Database Activity Monitoring
			Database Firewall	Database Firewall	Database Firewall
WAF HTTP Performance¹	10 Gbps	5 Gbps	2 Gbps	1 Gbps	500 Mbps
WAF Gateway Specifications					
SSL/TLS Performance²	32K TPS, 200K RPS (RSA-2K)	32K TPS, 200K RPS (RSA-2K)	7.5K TPS, 85K RPS (RSA-2K)	7.5K TPS, 85K RPS (RSA-2K)	7.5K TPS, 43K RPS (RSA-2K)
	10K TPS, 98K RPS (ECC P-256)	10K TPS, 98K RPS (ECC P-256)	4.5K TPS, 48K RPS (ECC P-256)	4.5K TPS, 48K RPS (ECC P-256)	4.5K TPS, 43K RPS (ECC P-256)
Latency (WAF Gateway Only)	< 5ms	< 5ms	< 5ms	< 5ms	< 5ms

1. Throughput of HTTP in Bridge/ABR, WAF Inspected Traffic using out of the box policies enabled
2. Both Transaction Per Second (TPS) and Requests Per Second (RPS) using hardware acceleration offload and WAF inspected traffic with out of the box policies enabled

Appliance Physical Specifications

Specifications		X10K3	X8530	X6530	X4530	X2530
Fault Tolerance		Dual hot-swap harddrive, Dual hot-swap power supplies	Dual hot-swap harddrive, Dual hot-swap power supplies	Dual hot-swap harddrive, Dual hot-swap power supplies	Dual hot-swap harddrive, Dual hot-swap power supplies	Dual hot-swap harddrive, Dual hot-swap power supplies
Data Traffic Module Slot 1 (With inline Bypass Support)	Default	2 x 10GbE Fiber SR	8 x GbE Copper	8 x GbE Copper	8 x GbE Copper	8 x GbE Copper
	Optional	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR
Data Traffic Module Slot 2 (With inline Bypass Support)	Default	N/A	N/A	N/A	N/A	N/A
	Optional	4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	8x GbE Copper 4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	8x GbE Copper 4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	8x GbE Copper 4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR	8x GbE Copper 4x GbE Fiber SR 2x 10GbE Fiber SR 4x 10GbE Fiber SR
Management Interface		2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display	2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display	2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display	2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display	2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display
Max Network Options		4 x Bridge / 9 x Reverse Proxy	8 x Bridge / 17 x Reverse Proxy	8 x Bridge / 17 x Reverse Proxy	8 x Bridge / 17 x Reverse Proxy	8 x Bridge / 17 x Reverse Proxy
Hard Drive		2 X 4TB (Raid 1)	2 X 4TB (Raid 1)	2 X 4TB (Raid 1)	2 X 4TB (Raid 1)	2 X 4TB (Raid 1)
Memory		384GB DDR4	384GB DDR4	128GB DDR4	128GB DDR4	128GB DDR4
SSL Acceleration		Optional SSL Standard Performance	Optional SSL Standard Performance	Optional SSL Standard Performance	Optional SSL Standard Performance	Optional SSL Standard Performance
Add-Ons		Fiber Channel HBA Hardware Security Module (HSM)	Fiber Channel HBA Hardware Security Module (HSM)	Fiber Channel HBA Hardware Security Module (HSM)	Fiber Channel HBA Hardware Security Module (HSM)	Fiber Channel HBA Hardware Security Module (HSM)
Power Supply		2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)	2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)	2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)	2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)	2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)
Heat Output - Full Load (BTU)		1010	1010	570	570	570
Power Consumption - Full Load (BTU)		350	350	210	210	210
Form Factor		2U	2U	2U	2U	2U
Dimensions		81 x 59.5 x 27.5cm	81 x 59.5 x 27.5cm	81 x 59.5 x 27.5cm	81 x 59.5 x 27.5cm	81 x 59.5 x 27.5cm
Weight		24.5 kg	24.5 kg	24.5 kg	24.5 kg	24.5 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%	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%	Temperature: 0° - 70°C Relative Humidity: 20 - 90%	Temperature: 0° - 70°C Relative Humidity: 20 - 90%
Safety Agency Approval		CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC	CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC	CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC	CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC	CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC

Imperva Hardware Appliance Specifications - 1 U Form Factor

Specifications	X2030 ²
Fault Tolerance	Not available
Throughput¹	500 Mbps
RSA/SEC (2048 BIT)	5000
Latency	Sub-millisecond
Interfaces	4 x 1G Copper, 2 x 1G Copper (for management)
Max Network Segment	(2) Bridge; (5) Proxy, Non-inline
Inline Fail Open (Bridging Only)	2 Bypass Segments
Hard Drive	2 TB
Memory	16 GB
Serial Port	RJ45 Connector
USB Port	2
Power Supply	150 W
AC Power	100-240V, 50-60 Hz
Heat Output - Full Load (BTU)	296.7 BTU/Hr
Consumption - Typical (W)	87W
Form Factor	1U
Dimensions	17.25 x 11.5 x 1.73inches, 438 x 292 x 44mm
Weight	13.65 lbs (6.2 kg)
Operating Environment	Temperature: 5° - 40°C Relative Humidity: 20 - 90%
Storage Environment	Temperature: 0° - 70°C Relative Humidity 20-90%
Safety Agency Approval	CE/FCC/cTUVus/VCCI/CCC/KCC/CB
Supported Imperva Products	Web Application Firewall

1. Throughput figures represent layer 7 Web application firewall performance in ABR and NGRP modes.

2. Available from version 14.7.0.20 LTS

Imperva Management Appliances

Imperva management appliances are required to configure the gateways and provide visibility in to system operations and manage the customer's security and compliance posture. Imperva's management products deliver superior performance, scalability and unified management capabilities for any size deployment. Whether you are managing a small data center, or a large number of business units, data centers, or customers, Imperva products give you the visibility and control to minimize administrative overhead and ensure a strong data security posture. Management appliances support the Imperva MX Manager and Security Operations Manager (SOM).

Specifications	M180 ¹
Fault Tolerance	Dual hot-swap harddrive, Dual hot-swap power supplies
Memory	128GB DDR3
Hard Drive	2 X 4TB (Raid 1)
Management Interface	2 x GbE Copper 1 x GbE Copper (IPMI) 1 x Serial Console RJ45 2 x USB 3.0 LCD Control & Display
Fiber Channel	Optional
Management Port	2 x 100/1000 Copper
Power Supply	2 X Hot Swappable 550W, 100-240 VAC (50/60 Hz)
Heat Output - Full Load (BTU)	570
Power Consumption Full Load (W)	210
Form Factor	2U
Dimensions	81 x 59.5 x 27.5cm
Weight	24.5kg
Operating Environment	Temperature: 5° - 40°C Relative Humidity: 20 - 90%
Storage Environment	Temperature: 0° - 70°C Relative Humidity 20-90%
Safety Agency Approval	CE, FCC, IC, RCM, VCCI, KC, CB, TUV, BSMI, NOM, CCC, BIS, TEC
Supported Imperva Products	MX - Manager SOM - Security Operations Manager

1. Available from version 14.70.50 LTS

About Thales Trusted Cyber Technologies

Thales Trusted Cyber Technologies, a business area of Thales Defense & Security, Inc., is a trusted, U.S. provider of cybersecurity solutions dedicated to U.S. Government. We protect the government's most vital data from the core to the cloud to the edge with a unified approach to data protection. Our solutions reduce the risks associated with the most critical attack vectors and address the government's most stringent encryption, key management, and access control requirements.

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