

# CHECK POINT 23500 APPLIANCE



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Data center grade security,  
performance and reliability

### Product Benefits

- Enable the most advanced threat prevention security
- Full SSL encrypted traffic inspection without compromising performance
- Future-proofed technology safeguards against tomorrow's risks
- Centralized control and LOM improves serviceability
- High performance package optimizes platform performance
- Modular, expandable chassis with flexible I/O options

### Product Features

- 4,900 SecurityPower™ Units
- 33 Gbps real-world firewall throughput
- 2.9 Gbps real-world threat prevention throughput
- Simple deployment and management
- Virtual Systems consolidates security onto one device
- High port density with 40 GbE option
- Redundant power supplies, fans and hard disk drives eliminate single point of failure

## OVERVIEW

The Check Point 23500 security appliance is ideal for large enterprise networks and data center environments where flexible I/O, high performance and high-reliability are required. The 23500 is a 2U appliance with five I/O expansion slots for high port capacity, redundant power supplies, a 2x 1TB RAID1 disk array, and Lights-Out Management (LOM) for remote management. This powerful security appliance is optimized to deliver real-world threat prevention throughput of 2.9 Gbps to secure your large enterprise networks and data centers.

The 23500 appliance combines the most comprehensive security protections with data center grade hardware to maximize uptime while safeguarding enterprise and data center networks. With redundant fans, hard disk drives and power supplies, support for 40 GbE connectivity as well as Lights-Out-Management for complete serviceability and control, the Check Point 23500 appliance is designed to satisfy your enterprise security needs while future-proofing your security foundation to address tomorrow's trends and threats today.

## COMPREHENSIVE THREAT PREVENTION

The rapid growth of malware, growing attacker sophistication and the rise of new unknown zero-day threats requires a different approach to keep enterprise networks and data secure. Check Point delivers fully integrated, comprehensive Threat Prevention to combat these emerging threats while reducing complexities and increasing operational efficiencies. The Check Point Threat Prevention solution includes powerful security features such as firewall, IPS, Anti-Bot, Antivirus, Application Control, and URL Filtering to combat known cyber-attacks and threats – now enhanced with the award-winning SandBlast™ Threat Emulation and Threat Extraction for complete protection against the most sophisticated threats and zero-day vulnerabilities.

## ALL-INCLUSIVE SECURITY SOLUTIONS

Check Point 23500 Appliances offer a complete and consolidated security solution available in two complete packages:

- NGTP: prevent sophisticated cyber-threats with IPS, Application Control, Antivirus, Anti-Bot, URL Filtering and Email Security.
- NGTX: NGTP with SandBlast Zero-Day Protection, which includes Threat Emulation and Threat Extraction.

## PREVENT KNOWN AND ZERO-DAY THREATS

The 23500 Appliance protects organizations from both known and unknown threats with Antivirus, Anti-Bot, SandBlast Threat Emulation (sandboxing), and SandBlast Threat Extraction technologies.

As part of the Check Point SandBlast Zero-Day Protection solution, the cloud-based Threat Emulation engine detects malware at the exploit phase, even before hackers can apply evasion techniques attempting to bypass the sandbox. Files are quickly quarantined and inspected, running in a virtual sandbox to discover malicious behavior before it enters your network. This innovative solution combines cloud-based CPU-level inspection and OS-level sandboxing to prevent infection from the most dangerous exploits, and zero-day and targeted attacks.

Furthermore, SandBlast Threat Extraction removes exploitable content, including active content and embedded objects, reconstructs files to eliminate potential threats, and promptly delivers sanitized content to users to maintain business flow.

	NGTP	NGTX
	Prevent known threats	Prevent known and zero-day attacks
Firewall	✓	✓
VPN (IPSec)	✓	✓
IPS	✓	✓
Application Control	✓	✓
Anti-Bot	✓	✓
Anti-Virus	✓	✓
URL Filtering	✓	✓
SandBlast Threat Emulation	✗	✓
SandBlast Threat Extraction	✗	✓

## INCLUSIVE HIGH PERFORMANCE PACKAGE

Customers with high connection capacity requirements can purchase the affordable High Performance Package (HPP). This includes the appliance plus two 4x 10Gb SFP+ interface cards, transceivers and 32 GB of memory for high connection capacity.

	Base	HPP	Max
1 GbE ports (Copper)	10	10	42
10 GbE ports (Fiber)	2	10	20
Transceivers (SR)	2	10	20
40 GbE ports (Fiber)	0	0	4
RAM	16GB	64GB	
HDD	2	2	
Power Supply Units	2	2	
Lights Out Management	Included	Included	

## A RELIABLE SERVICEABLE PLATFORM

The Check Point 23500 appliance delivers business continuity and serviceability through features such as hot swappable redundant power supplies, hot-swappable redundant hard disk drives (RAID), redundant fans and an advanced LOM card for out-of-band management. Combined together, these features ensure a greater degree of business continuity and serviceability when these appliances are deployed in the customer's networks.

## REMOTE MANAGEMENT AND MONITORING

A Lights-Out-Management (LOM) card provides out-of-band remote management to remotely diagnose, start, restart and manage the appliance from a remote location. Administrators can also use the LOM web interface to remotely install an OS image from an ISO file.

## 40 GbE CONNECTIVITY

High speed connections are essential in modern data center environments, especially those with high-density virtualized servers. If you're ready to move from 10 to 40 GbE, so is the 23500 Appliance. The Check Point 23500 lets you connect your 10 GbE server uplinks to your 40 GbE core network with up to 4x 40 GbE ports.

## TAP THE POWER OF VIRTUALIZATION

Check Point Virtual Systems enable organizations to consolidate infrastructure by creating multiple virtualized security gateways on a single hardware device, offering significant cost savings with seamless security and infrastructure consolidation.

## 23500 SECURITY APPLIANCE

- 1 Graphic LCD display
- 2 2 x 1 TB RAID1 HDD
- 3 Five network card expansion slots
- 4 USB ports for ISO installation
- 5 Console port
- 6 Lights-Out Management port
- 7 Sync 10/100/1000Base-T RJ45
- 8 Management 10/100/1000Base-T RJ45



## ORDERING INFORMATION

BASE CONFIGURATION <sup>1</sup>	
23500 Next-Gen Threat Prevention bundled with local management for up to 2 gateways	CPAP-SG23500-NGTP
23500 Next-Gen Threat Extraction bundled with local management for up to 2 gateways	CPAP-SG23500-NGTX
HIGH PERFORMANCE PACKAGES <sup>1</sup>	
23500 Next-Gen Threat Prevention High Performance Package with 10x1GbE copper ports, 10x10Gb SFP+ ports, 10xSR transceivers and 64 GB of memory	CPAP-SG23500-NGTP-HPP
23500 Next-Gen Threat Extraction High Performance Package with 10x1GbE copper ports, 10x10Gb SFP+ ports, 10xSR transceivers and 64 GB of memory	CPAP-SG23500-NGTX-HPP
VIRTUAL SYSTEM PACKAGES	
23500 NGTP appliance with High Performance Package and 20 Virtual Systems	CPAP-SG23500-NGTP-HPP-VS20
Two 23500 NGTP appliances with High Performance Pack and 20 Virtual Systems	CPAP-SG23500-NGTP-HPP-VS20-2
23500 NGTX appliance with High Performance Package and 20 Virtual Systems	CPAP-SG23500-NGTX-HPP-VS20
Two 23500 NGTX appliances with High Performance Package and 20 Virtual Systems	CPAP-SG23500-NGTX-HPP-VS20-2

<sup>1</sup> SKUs for 2 and 3 years are available, see the online Product Catalog

## ACCESSORIES

INTERFACE CARDS AND TRANSCEIVERS	
8 Port 10/100/1000 Base-T RJ45 interface card	CPAC-8-1C-B
4 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceivers	CPAC-4-1F-B
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX-B
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX-B
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T-B
4 Port 10GBase-F SFP+ interface card	CPAC-4-10F-B
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR-B
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR-B
2 Port 40GBase-F QSFP interface card	CPAC-2-40F-B
QSFP transceiver module for 40G fiber ports - short range (40GBase-SR)	CPAC-TR-40SR-QSFP-300m
QSFP transceiver module for 40G fiber ports - long range (40GBase-LR)	CPAC-TR-40LR-QSFP-10K
4 Port 1GE copper Bypass (Fail-Open) network interface card (10/100/1000 Base-T)	CPAC-4-1C-BP-B
2 Port 10GE short-range Fiber Bypass (Fail-Open) network interface card (10GBase-SR)	CPAC-2-10-FSR-B-BP

SPARES AND MISCELLANEOUS	
Memory upgrade kit from 16GB to 64GB for 23500 appliance	CPAC-RAM48GB-23500
Additional/Replacement 1 TB hard drive for 15000 and 23000 Appliances	CPAC-HDD-1TB-B
Replacement AC power supply for 23000 Appliances	CPAC-PSU-AC-23000
Replacement fan cartridge for 15000 and 23000 appliances	CPAC-FAN-B
Slide rails for 15000 and 23000 Appliances (22" - 32")	CPAC-RAIL-L
Extended slide rails for 15000 and 23000 Appliances (24" - 36")	CPAC-RAIL-EXT-L

## Performance

### Production (Real-World Traffic Blend) <sup>1</sup>

- 4,900 SecurityPower
- 33 Gbps firewall throughput
- 2.9 Gbps threat prevention throughput

### Lab (RFC 3511, 2544, 2647, 1242)

- 100 Gbps of firewall throughput, 1518 byte UDP
- 23 Gbps of AES-128 VPN throughput
- 5 to 20 million concurrent connections, 64 byte response <sup>2</sup>
- 174,000 connections per second, 64 byte response

<sup>1</sup> performance measured with a real-world traffic blend, a typical rule-base, NAT and logging enabled and the most secure threat prevention protection

<sup>2</sup> performance measured with default/maximum memory

## Expansion Options

### Base Configuration (using 2 of 5 expansion slots)

- 2 on-board 10/100/1000Base-T RJ-45 ports
- 8x 10/100/1000Base-T RJ-45 IO card
- 2x 10GBaseF SFP+ IO card
- 16 GB memory
- Redundant dual hot-swappable power supplies
- Redundant dual hot-swappable 1xTB hard drives
- Lights-Out-Management (LOM)
- Slide rails (22" – 32")

### Network Expansion Slot Options

- 8x 10/100/1000Base-T RJ45 port card, up to 40 ports
- 4x 1000Base-F SFP port card, up to 20 ports
- 4x 10GBase-F SFP+ port card, up to 20 ports
- 2x 40GBase-F QSFP port card, up to 4 ports

### Fail-Open/Bypass Network Options

- 4x 10/100/1000Base-T RJ45 port card
- 2x 10GBase-F SFP+ port card

### Virtual Systems

- Max VSs: 150 (w/16GB), 250 (w/64GB)

## Routing

### Unicast and Multicast Routing (see SK98226)

- OSPFv2 and v3, BGP, RIP
- Static routes, Multicast routes
- Policy-based routing
- PIM-SM, PIM-SSM, PIM-DM, IGMP v2, and v3

## Network

### Network Connectivity

- 1024 interfaces or VLANs per appliance
- 4096 interfaces per appliance (in Virtual System mode)
- 802.3ad passive and active link aggregation
- Layer 2 (transparent) and Layer 3 (routing) mode

### High Availability

- Active/Active and Active/Passive - L3 mode
- Session synchronization for firewall and VPN
- Session failover for routing change
- Device and link failure detection
- ClusterXL or VRRP

### IPv6

- Features: Firewall, Identity Awareness, Mobile Access, App Control, URL Filtering, IPS, Anti-Bot, Antivirus
- NAT66, NAT64
- CoreXL, SecureXL, HA with VRRPv3

## Physical

### Power Requirements

- AC Input Voltage: 90-264V
- Frequency: 47-63Hz
- Single Power Supply Rating: 800W
- Power Consumption Maximum: 383W
- Maximum thermal output: 1306.9 BTU/hr.

### Dimensions

- Enclosure: 2RU
- Standard (W x D x H): 17.4 x 20.84 x 3.5 in.
- Metric (W x D x H): 442 x 529 x 88 mm
- Weight: 15.8 kg (34.8 lbs.)

### Operating Environmental Conditions

- Temperature: 32° to 104°F / 0° to 40°C
- Humidity: 5% to 95% (non-condensing)

### Storage Conditions

- Temperature: -4° to 158°F / -20° to 70°C
- Humidity: 5% to 95% at 60°C (non-condensing)

### Certifications

- Safety: UL60950-1, CB IEC60950-1, CE LVD EN60950-1, TUV GS
- Emissions: FCC, CE, VCCI, RCM/C-Tick
- Environmental: RoHS, \*REACH, \*ISO14001

## CONTACT US

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