

23500 SECURITY GATEWAY



Ready to battle any threat, from small to the fifth generation large scale and multi-vector attacks, our security gateways provide superior threat prevention and a unified security management. Check Point 23500 Next Generation Firewall combines the most comprehensive protections with data center-grade security and hardware to maximize uptime and performance for securing large enterprise and data center environments.



The Most Advanced Threat Prevention

Equipped with our SandBlast technology, protecting against unknown threats and zero-day attacks



Full Security, Uncompromising Performance

Highly optimized with up to 17 Gbps of threat prevention throughput



Designed to Secure Encrypted Traffic

Powerful platforms for inspection of SSL traffic

PERFORMANCE HIGHLIGHTS

Gen II Security: Firewall	Gen III Security: NGFW ¹	Gen V Security: Threat Prevention + SandBlast ²
116 Gbps	20 Gbps	17 Gbps

Performance measured under ideal testing conditions. Additional performance details on page 4. 1. Includes Firewall, Application Control, and IPS. 2. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection.

23500

Data center grade security, performance and reliability

The Check Point 23500 Next Generation Security Gateway combines the most comprehensive security protections with data center grade hardware to maximize uptime while safeguarding enterprise and data center networks.

The 23500 is a 2U Next Generation Security Gateways with five I/O expansion slots for high port capacity, redundant AC or DC power supplies and fans, a 2x 1TB (HDD) or 2x 480GB (SSD) RAID1 disk array, and Lights-Out Management (LOM) for remote management. If you're ready for 25, 40 or 100 GbE, so is the 23500 Next Generation Security Gateway - with its 40 and 100/25 GbE IO card options.

Key Features & Benefits

Advanced Threat Prevention	1 st time prevention of known and zero-day threats
Uncompromising Performance	Achieve up to 17 Gbps of threat prevention throughput
Secure Encrypted Traffic	Consolidate SSL inspection into one integrated security platform



THE CYBER SECURITY ARCHITECTURE OF THE FUTURE

Data Center and High-End Enterprise Security Gateways

ONE SECURITY PLATFORM

Leveraging unified threat
intelligence
and open interfaces

REAL-TIME THREAT PREVENTION

Blocking the most
sophisticated attacks before
they infiltrate the network

CONSOLIDATED MANAGEMENT

Single management,
modular policy management
and integrated threat
visibility

SPOTLIGHT

23500 SECURITY GATEWAY

- 1 Graphic LCD display
- 2 2 x 1TB (HDD) or 2x 480GB (SSD) RAID1
- 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



Prevent Known and Zero-day Threats

Zero-day protection offering network security with evasion-resistant malware detection and complete protection from the most advanced attacks, ensuring quick delivery of safe content to users.



All-inclusive Security Solutions

Check Point 23500 Next Generation Security Gateway offers a complete and consolidated security solution available in two complete packages:

- ❖ Threat Prevention
- ❖ Threat Prevention + SandBlast

Inclusive High Performance Package

Purchase the affordable High Performance Package (HPP). This includes the base system plus two 4x 10GbE SFP+ interface cards, transceivers and 64 GB of memory for high connection capacity.



100, 40 and 25 GbE Connectivity

If you're ready to move from 10 to 25, 40 or 100 GbE, so is the 23500 Next Generation Security Gateway. The 23500 Security Gateway lets you connect your 10 GbE server uplinks to your core network.

DATA CENTER GRADE PLATFORM

		1 GbE	10 GbE	40 GbE	100/25 GbE	Memory	Redundant Storage	Redundant Power	LOM
23500	Base	10	2	0	0	16 GB	●	●	●
	HPP	10	10	0	0	64 GB	●	●	●
	Max	42	20	6	6	128 GB	●	●	●

WELCOME TO THE FUTURE OF CYBER SECURITY

Performance

Ideal Testing Conditions

- 116 Gbps of UDP 1518 byte packet firewall throughput
- 22 Gbps IPS
- 20 Gbps of NGFW¹
- 17 Gbps of Threat Prevention²
- 26 Gbps of AES-128 VPN throughput
- 310,000 connections per second, 64 byte response
- 6.4/25.6/51.2M concurrent connections, 64 byte response³

Enterprise Testing Conditions

- 52 Gbps of firewall throughput
- 13.3 Gbps IPS
- 12.6 Gbps of NGFW¹
- 9.7 Gbps of Threat Prevention²

1: Includes Firewall, Application Control and IPS with R80.20. 2: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection with R80.20.
 3: Performance measured with default/HPP/maximum memory with R80.10.

Additional Features

Highlights

- 2x CPUs, 20x physical cores, 40x virtual cores (total)
- 2x 1TB HDD or 480GB SSD RAID1 storage
- 16, 64 and 128 GB memory options
- Lights-Out-Management card is Included
- Virtual Systems (base/HPP/max mem): 60/250/250

Network Expansion Slot Options (3 of 5 slots open)

- 1x 10/100/1000Base-T RJ45 port card, up to 42 ports
- 4x 1000Base-F SFP port card, up to 20 ports
- 4x 10GBase-F SFP+ port card, up to 20 ports
- 2x 40G QSFP+ port card, up to 6 ports
- 2x 100/25G QSFP28 port card, up to 6 ports

Fail-Open/Bypass Network Options

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

Content Security

First Time Prevention Capabilities

- CPU-level, OS-level and static file analysis
- File disarm and reconstruction via Threat Extraction
- Average emulation time for unknown files that require full sandbox evaluation is under 100 seconds
- Maximal file size for Emulation is 100 MB
- Emulation OS Support: Windows XP, 7, 8.1, 10

Applications

- Use 8,000+ pre-defined or customize your own applications
- Accept, prevent, schedule, and apply traffic-shaping

Content Security (continued)

Data Loss Prevention

- Classify 700+ pre-defined data types
- End user and data owner incident handling

Dynamic User-based Policy

- Integrates with Microsoft AD, LDAP, RADIUS, Cisco pxGrid, Terminal Servers and with 3rd parties via a Web API
- Enforce consistent policy for local and remote users on Windows, macOS, Linux, Android and Apple iOS platforms

Network

Network Connectivity

- Total physical and virtual (VLAN) interfaces per appliance: 1024/4096 (single gateway/with virtual systems)
- 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 failover for routing change, device and link failure
- ClusterXL or VRRP

IPv6

- NAT66, NAT64, NAT46
- CoreXL, SecureXL, HA with VRRPv3

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

Physical

Power Requirements

- Single Power Supply rating: 800W
- AC power input: 90 to 264V (47-63Hz)
- DC input current: -40.5V/24A -48V/19.2A, -60V/16.0A
- Power consumption avg/max: AC222/383W, DC324.8/376W
- Maximum thermal output: 1306.9 BTU/hr.

Dimensions

- Enclosure: 2RU
- Dimensions (WxDxH): 17.4x20.84x3.5 in. (442x529x88mm)
- Weight: 34.8 lbs. (15.8 kg)

Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95%
- Storage: -20° to 70°C, humidity 5% to 95% at 60°C

Certifications

- Safety: UL, CB, CE, TUV GS
- Emissions: FCC, CE, VCCI, RCM/C-Tick
- Environmental: RoHS, WEEE, REACH¹, ISO14001¹

¹. factory certificate

ORDERING 23500 SECURITY GATEWAYS

BASE CONFIGURATION ¹	SKU
23500 Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 2x 10GbE SFP+ ports + 2 SR transceivers, 16GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), 2 Virtual Systems, Next Generation Threat Prevention (NGTP) Subscription Package for 1 Year	CPAP-SG23500-NGTP
23500 SandBlast Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 2x 10GbE SFP+ ports + 2 SR transceivers, 16GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), 2 Virtual Systems, SandBlast (NGTX) Subscription Package for 1 Year	CPAP-SG23500-NGTX
HPP CONFIGURATION ¹	SKU
23500 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 10x10Gb SFP+ ports, 10 SR transceivers, 64 GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), 2 Virtual Systems, Next Generation Threat Prevention (NGTP) Subscription Package for 1 Year	CPAP-SG23500-NGTP-HPP
23500 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 10x10Gb SFP+ ports, 10 SR transceivers, 64 GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), 2 Virtual Systems, Next Generation Threat Extraction (SandBlast) Subscription Package for 1 Year	CPAP-SG23500-NGTX-HPP
INTERFACE CARDS AND TRANSCEIVERS	SKU
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 40G 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
Bi-directional QSFP+ transceiver for 40G fiber ports - short range (40GBase-SR-BiDi)	CPAC-TR-40SR-QSFP-BiDi
2 Port 100/25G QSFP28 interface card	CPAC-2-100/25F-B
SFP28 transceiver module for 25G fiber ports with QSFP28 adaptor - short range (25GBase-SR)	CPAC-TR-25SR-ADP-B
SFP28 transceiver module for 25G fiber ports with QSFP28 adaptor - long range (25GBase-LR)	CPAC-TR-25LR-ADP-B
QSFP28 transceiver module for 100G fiber ports - short range (100GBase-SR4)	CPAC-TR-100SR-B
QSFP28 transceiver module for 100G fiber ports - long range (100GBase-LR4)	CPAC-TR-100LR-B
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
MEMORY	SKU
Memory upgrade kit from 16GB to 64GB for 23500 appliance	CPAC-RAM48GB-23500
Memory upgrade kit from 16GB to 128GB for 23500 appliance	CPAC-RAM112GB-23500
Memory upgrade kit from 64GB to 128GB for 23500 appliance	CPAC-RAM64GB-23500
SPARES AND MISCELLANEOUS	SKU
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
Dual DC power supplies for 15000 and 23000 appliances	CPAC-PSU-DC-Dual-15000/23000
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

¹ 2 and 3 year and Virtual Systems packages also available in the online product catalog