

CHECK POINT 13500 APPLIANCE



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High data center cyber security performance

Product Benefits

- Security of data center assets
- Modular, serviceable platform fits easily into complex networking environments
- High availability and redundant components eliminates down time
- Centralize control with unified security management and LOM
- Ideal for applications that require Next Generation security

Product Features

- 3,200 SecurityPower™ Units
- Maximum security and performance
- High availability and serviceability
- Lights-Out-Management
- Optimized for Next Generation security

INSIGHTS

Large data centers have uncompromising needs for performance, uptime and scalability. High end security gateway solutions must perform network access control within the unique requirements of these environments while supporting the latest networking standards like IPv6. With the increase in sophisticated attacks, additional security layers such as Identity Awareness, IPS, Application Control, URL Filtering, Antivirus and others are required.

In addition to their vast performance and security needs, data center environments are characterized by rigid requirements for high reliability of its various systems. All of these requirements drive the need for redundant, serviceable and highly available components and systems.

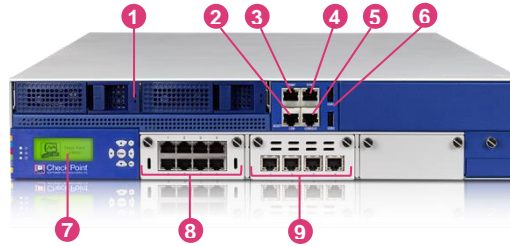
SOLUTION

The 13500 Appliance delivers exceptional Next Generation Firewall performance in its class and offers unmatched scalability, serviceability and port density. Benefiting from Check Point's advanced SecureXL, CoreXL and ClusterXL technologies, the 13500 Appliance is capable of delivering stunning performance in a compact 2 rack-unit physical footprint. With up to 23.6 Gbps firewall throughput and 5.7 Gbps of IPS throughput the 13500 Appliance is designed to secure the most demanding network environment.

The 13500 Appliance is designed from the ground up for unmatched flexibility for even the most demanding enterprise and data center network environments. The 13500 Appliance has 3 expansion slots supporting a wide range of network options. The standard configuration includes two onboard 1 Gigabit copper ports for Management and Sync and twelve 1 Gigabit Ethernet copper ports. A maximally configured 13500 Appliance provides up to twenty-six 1 Gigabit copper ports, up to twelve 1 Gigabit fiber ports or up to twelve 10 Gigabit fiber ports. The 13500 Appliances also have hot-swappable redundant disk drives, fans and power supply units. Lights-Out-Management (LOM) provides remote support and maintenance capabilities. Order the appliance with an AC or DC power option to meet your datacenter requirements.

13500

- 1 2 x 500 GB RAID1 HDD
- 2 Lights-Out Management port
- 3 Management 10/100/1000Base-T port
- 4 Sync 10/100/1000Base-T port
- 5 Console port
- 6 USB ports for ISO installation
- 7 Graphic LCD display
- 8 8x10/100/1000Base-T port card
- 9 4/10/100/1000Base-T port card



ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 13500 Appliances offer a complete and consolidated security solution available in five Next Generation Security Software Blade packages.

Next Generation Firewall (NGFW): identify and control applications by user and scan content to stop threats.

Next Generation Secure Web Gateway (SWG): enables secure use of Web 2.0 with real time protection.

Next Generation Data Protection (NGDP): preemptively protect sensitive information from unintentional loss and educate users on proper data handling policy in real-time.

Next Generation Threat Prevention (NGTP): prevent sophisticated cyber-threats with IPS, Application Control, Antivirus, Anti-Bot, URL Filtering and Email Security.

Next Generation Threat Extraction (NGTX): advanced next-gen zero-day threat prevention, NGTP with Threat Emulation and Threat Extraction.

PREVENT UNKNOWN THREATS

Check Point provides complete zero-day threat prevention and alerts when under attack. Threat Extraction delivers zero-malware documents in zero seconds. Threat Emulation inspects files for malicious content in a virtual sandbox. When Threat Emulation discovers new threats, a signature is sent to the Check Point ThreatCloud database which documents and shares information on the newly identified malware with other Check Point customers — providing immediate protection against zero-day threats.

INCLUSIVE HIGH PERFORMANCE PACKAGE

Customers with high connection capacity requirements can purchase the affordable High Performance Package (HPP) with the Next Generation security package of their choice. This includes the appliance plus a 4x10Gb SFP+ interface card, transceivers and 64 GB of memory for high connection capacity.

INTEGRATED SECURITY MANAGEMENT

The appliance can either be managed locally with its available integrated security management or via central unified management. Using local management, the appliance can manage itself and one adjacent appliance for high availability purposes.

A RELIABLE SERVICEABLE PLATFORM

The Check Point 13500 Appliances deliver business continuity and serviceability through features such as hot-swappable redundant power supplies, hard disk drives and fans and includes 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.

GAIA—A UNIFIED SECURE OS

Check Point GAIa™ is the next generation Secure Operating System for all Check Point appliances, open servers and virtualized gateways. GAIa secures IPv4 and IPv6 networks utilizing the Check Point Acceleration & Clustering technology and it protects the most complex network environments by supporting dynamic routing protocols like RIP, OSPF, BGP, PIM (sparse and dense mode) and IGMP. As a 64-Bit OS, GAIa increases the connection capacity of select appliances.

GAIa simplifies management with segregation of duties by enabling role-based administrative access. Furthermore, GAIa greatly increases operation efficiency by offering Automatic Software Updates. The intuitive and feature-rich Web interface allows for instant search of any commands or properties.

SPECIFICATIONS

PERFORMANCE

Production Performance¹

- 3,200 SecurityPower
- 23.6 Gbps firewall throughput
- 5.7 Gbps firewall and IPS throughput

RFC 3511, 2544, 2647, 1242 PERFORMANCE (LAB)

- 77 Gbps of firewall throughput, 1518 byte UDP
- 17 Gbps of VPN throughput, AES-128
- 7.8 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend
- 7/28² million concurrent connections
- 178,000 connections per second, 64 byte HTTP response

EXPANSION OPTIONS

Base Configuration

- 2 onboard 10/100/1000Base-T RJ45 ports
- 4 x 10/100/1000Base-T RJ45 interface card (1 of the 3 expansion slots)
- 8 x 10/100/1000Base-T RJ45 interface card (1 of the 3 expansion slots)
- 16 GB memory
- Redundant dual AC or DC hot-swappable power supplies
- Redundant dual hot-swappable 500GB HDD RAID1
- LOM card
- Slide rails (22" to 32")

Network Expansion Slot Options (3 slots)

- 4 x 10/100/1000Base-T RJ45 interface card
- 8 x 10/100/1000Base-T RJ45 interface card
- 2 x 1000Base-F interface card
- 4 x 1000Base-F interface card
- 2 x 10GBase-F SFP+ interface card
- 4 x 10GBase-F SFP+ interface card
- 4 x 10/100/1000Base-T Fail-Open NIC
- 4 x 1000Base-F SX or LX Fail-Open NIC
- 2 x 10GBase-F SR or LR Fail-Open NIC

Max Configuration

- Up to 26 x 10/100/1000Base-T RJ45 ports
- Up to 12 x 1000Base-F SFP ports
- Up to 12 x 10GBase-F SFP+ ports
- 32, 48 or 64 GB memory

Virtual Systems

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

NETWORK

Network Connectivity

- IPv4 and IPv6
- 1024 interfaces or VLANs per system
- 4096 interfaces per system (in Virtual System mode)
- 802.3ad passive and active link aggregation
- Layer 2 (transparent) and Layer 3 (routing) mode

High Availability

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

PHYSICAL

Power Requirements

- Input Voltage: 90 - 264VAC (47-63HZ), -36 to -72 VDC
- Inrush Current: 35A/70A@115VAC, 70A@230VAC, 35A@-48VDC
- Single Power Supply Rating: 600W
- Power Consumption Maximum: 431W
- Maximum thermal output: 1,730 BTU

Dimensions

- Enclosure: 2RU
- Standard (W x D x H): 17.4 x 23.6 x 3.5 in.
- Metric (W x D x H): 442 x 600 x 88 mm
- Weight: 17.5 kg (38.6 lbs.)

Operating Environmental Conditions

- Temperature: 32°to104°F / 0° to 40°C
- Humidity: 5%-95% (non-condensing)

Storage Conditions

- Temperature: -40° to 158°F / -40° to 70°C
- Humidity: 5% to 95% at 60°C (non-condensing)

Certifications

- Safety: CB,UL/cUL, CSA, TUV
- Emissions: FCC, CE, VCCI, C-Tick
- Environmental: RoHS

¹ Check Point's SecurityPower is a new benchmark metric that allows customers to select security appliances by their capacity to handle real-world network traffic, multiple security functions and a typical security policy.

² With GAiA OS and 64 GB memory upgrade

APPLIANCE PACKAGES

BASE CONFIGURATION ^{1,2}	
13500 Next-Gen Firewall (with FW, VPN, ADNC, IA, MOB-5, IPS and APCL) bundled with local management for up to 2 gateways	CPAP-SG13500-NGFW
13500 Secure Web Gateway (with FW, VPN, ADNC, IA, APCL, AV and URLF) bundled with local management and SmartEvent for up to 2 gateways	CPAP-SWG13500
13500 Next-Gen Data Protection (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, and DLP) bundled with local management for up to 2 gateways	CPAP-SG13500-NGDP
13500 Next-Gen Threat Prevention (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, URLF, AV, ABOT and ASPM) bundled with local management for up to 2 gateways	CPAP-SG13500-NGTP
13500 Next-Gen Threat Extraction (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, URLF, AV, ABOT, ASPM, TE and TEX) bundled with local management for up to 2 gateways	CPAP-SG13500-NGTX
13500 Next-Gen Firewall with 20 Virtual Systems	CPAP-SG13500-NGFW-VS20
13500 Next-Gen Firewall Bundle, one primary and one HA, with 20 VS	CPAP-SG13500-NGFW-VS20-2
HIGH PERFORMANCE PACKAGES ^{1,2}	
13500 Next-Gen Firewall High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory	CPAP-SG13500-NGFW-HPP
13500 Secure Web Gateway High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory	CPAP-SWG13500-HPP
13500 Next-Gen Data Protection High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory.	CPAP-SG13500-NGDP-HPP
13500 Next-Gen Threat Prevention High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory.	CPAP-SG13500-NGTP-HPP
13500 Next-Gen Threat Extraction High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory	CPAP-SG13500-NGTX-HPP
13500 Next-Gen Firewall with 20 Virtual Systems and the High Performance Package	CPAP-SG13500-NGFW-VS20-HPP
13500 Next-Gen Firewall Bundle, one primary and one HA, with 20 Virtual Systems and the High Performance Package	CPAP-SG13500-NGFW-VS20-HPP-2

¹ SKUs for 2 and 3 years are available, see the online Product Catalog

² DC power SKUs are also available

SOFTWARE BLADE PACKAGES

SOFTWARE BLADE PACKAGES ¹	
13500 NGFW Software Blade package for 1 year (IPS and APCL)	CPSB-NGFW-13500-1Y
13500 Secure Web Gateway Software Blade package for 1 year (APCL, AV and URLF)	CPSB-SWG-13500-1Y
13500 NGDP Software Blade package for 1 year (IPS, APCL, and DLP)	CPSB-NGDP-13500-1Y
13500 NGTP Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM)	CPSB-NGTP-13500-1Y
13500 NGTX Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT, ASPM, TE and TEX)	CPSB-NGTX-13500-1Y
SOFTWARE BLADES ¹	
Check Point Mobile Access Blade for unlimited concurrent connections	CPSB-MOB-U
Data Loss Prevention Blade for 1 year (for 1,500 users and above, up to 250,000 mails per hour and max throughput of 2.5 Gbps)	CPSB-DLP-U-1Y
Check Point IPS blade for 1 year	CPSB-IPS-XL-1Y
Check Point Application Control blade for 1 year	CPSB-APCL-XL-1Y
Check Point URL Filtering blade for 1 year	CPSB-URLF-XL-1Y

Check Point Antivirus Blade for 1 year	CPSB-AV-XL-1Y
Check Point Anti-Spam & Email Security Blade for 1 year	CPSB-ASPM-XL-1Y
Check Point Anti-Bot blade for 1 year - for ultra-high-end appliances and pre-defined systems	CPSB-ABOT-XL-1Y
VIRTUAL SYSTEM PACKAGES	
50 Virtual Systems package	CPSB-VS-50
50 Virtual Systems package for HA/VLSL	CPSB-VS-50-VLSL
25 Virtual Systems package	CPSB-VS-25
25 Virtual Systems package for HA/VLSL	CPSB-VS-25-VLSL
10 Virtual Systems package	CPSB-VS-10
10 Virtual Systems package for HA/VLSL	CPSB-VS-10-VLSL

¹ SKUs for 2 and 3 years are available, see the online Product Catalog

ACCESSORIES

INTERFACE CARDS AND TRANSCEIVERS	
4 Port 10/100/1000 Base-T RJ45 interface card for 13000 and Smart-1 appliances	CPAC-4-1C-L
8 Port 10/100/100 Base-T RJ45 interface card for 13000 and Smart-1 appliances	CPAC-8-1C-L
2 Port 1000Base-F SFP interface card; requires SFP transceivers per port	CPAC-2-1F
4 Port 1000Base-F SFP interface card; requires SFP transceivers per port	CPAC-4-1F
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T
2 Port 10GBase-F SFP+ interface card; requires 10GBase SFP+ transceivers per port	CPAC-2-10F
4 Port 10GBase-F SFP+ interface card; requires 10GBase SFP+ transceivers per port	CPAC-4-10F
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR
BYPASS CARD	
2 Port 10GE short-range Fiber Bypass (Fail-Open) interface card (1000Base-SR)	CPAC-2-10FSR-BP
2 Port 10GE long-range Fiber Bypass (Fail-Open) interface card (1000Base-LR)	CPAC-2-10FLR-BP
4 Port 1GE short-range Fiber Bypass (Fail-Open) interface card (1000Base-SX)	CPAC-4-1FSR-BP
4 Port 1GE long-range Fiber Bypass(Fail-Open) interface card (1000Base-LX)	CPAC-4-1FLR-BP
Port 1GE copper Bypass (Fail-Open) interface card (10/100/1000 Base-T)	CPAC-4-1C-BP
SPARES AND MISCELLANEOUS	
16 GB RAM memory upgrade for 13500 appliance	CPAC-RAM16GB-13000
64 GB RAM memory upgrade for 13000 appliance	CPAC-RAM64GB-13000
Replacement parts kit including 1 HDD, one AC power supply and one fan for 13000 Appliance	CPAC-SPARES-13000
Replacement AC power supply for 13000 Appliance	CPAC-PSU-AC-13000
Replacement DC power supply for 13000 Appliance	CPAC-PSU-DC-13000
Replacement 500G Hard Disk Drive for 13000 Appliance	CPAC-HDD-500G-13000
Replacement fan for 13000 Appliance	CPAC-FAN-13000
Slide rails for 13000 Appliances (22"-32")	CPAC-RAIL-L
Extended slide rails for 13000 Appliances (24"-36")	CPAC-RAIL-EXT-L

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