



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.

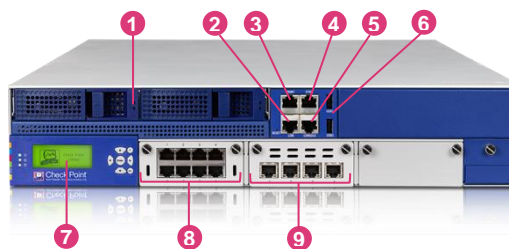
SOLUTION

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 Appliance is available in four Software Blade packages and extensible to include additional Software Blades for further security protection.

Next Generation Firewall (NGFW): identify and control applications by user and scan content to stop threats—with IPS and Application Control.

Next Generation Secure Web Gateway (SWG): enables secure use of Web 2.0 with real time multi-layered protection against web-borne malware—with Application Control, URL Filtering, Antivirus and SmartEvent.

Next Generation Data Protection (NGDP): preemptively protect sensitive information from unintentional loss, educate users on proper data handling policies and empower them to remediate incidents in real-time - with IPS, Application Control and DLP.

Next Generation Threat Prevention (NGTP): apply multiple layers of protection to prevent sophisticated cyber-threats—with IPS, Application Control, Antivirus, Anti-Bot, URL Filtering and Email Security.

PREVENT UNKNOWN THREATS

Check Point Appliances are a key component in the ThreatCloud Ecosystem providing excellent protection from undiscovered exploits, zero-day and targeted attacks. Appliances inspect and send suspicious files to the ThreatCloud Emulation Service which runs them in a virtual sandbox to discover malicious behavior. Discovered malware is prevented from entering the network. A signature is created and sent to the ThreatCloud which shares information on the newly identified threat to protect other Check Point customers.

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

¹Check 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.

²With GAiA OS and 64 GB memory upgrade

APPLIANCE PACKAGES

BASE CONFIGURATION ^{1,2}	
13500 Next Generation Firewall Appliance (with FW, VPN, ADNC, IA, MOB-5, IPS and APCL Blades); bundled with local management for up to 2 gateways.	CPAP-SG13500-NGFW
Secure Web Gateway 13500 Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management and SmartEvent for up to 2 gateways.	CPAP-SWG13500
13500 Next Generation Data Protection Appliance (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, and DLP Blades); bundled with local management for up to 2 gateways.	CPAP-SG13500-NGDP
13500 Next Generation Threat Prevention Appliance (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, URLF, AV, ABOT and ASPM Blades); bundled with local management for up to 2 gtwys.	CPAP-SG13500-NGTP
13500 Next Generation Firewall Appliance with 20 Virtual Systems	CPAP-SG13500-NGFW-VS20
13500 Next Generation Firewall Appliance Bundle, one primary and one HA, with 20 VS	CPAP-SG13500-NGFW-VS20-2
HIGH PERFORMANCE PACKAGES ^{1,2}	
13500 Next Generation Firewall Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory for high connection capacity	CPAP-SG13500-NGFW-HPP
13500 Secure Web Gateway Appliance 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 Generation Data Protection Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory for high connection capacity.	CPAP-SG13500-NGDP-HPP
13500 Next Generation Threat Prevention Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 64 GB of memory for high connection capacity.	CPAP-SG13500-NGTP-HPP
13500 Next Generation Firewall Appliance with 20 Virtual Systems and the High Performance Package	CPAP-SG13500-NGFW-VS20-HPP
13500 Next Generation Firewall Appliance 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 Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW-13500-1Y
Secure Web Gateway 13500 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG-13500-1Y
13500 NGDP Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP-13500-1Y
13500 NGTP Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP-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
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VIRTUAL SYSTEM PACKAGES

50 Virtual Systems package	CPSB-VS-50
50 Virtual Systems package for HA/VLS	CPSB-VS-50-VLS
25 Virtual Systems package	CPSB-VS-25
25 Virtual Systems package for HA/VLS	CPSB-VS-25-VLS
10 Virtual Systems package	CPSB-VS-10
10 Virtual Systems package for HA/VLS	CPSB-VS-10-VLS

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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