



13500
Blazing fast data center
cyber-security

Check Point 13500 Appliance

YOUR CHALLENGE

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.

OUR 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 23.6¹ Gbps firewall throughput and 5.7¹ Gbps of IPS throughput the 13500 Appliance is designed to secure the most demanding network environment.

OVERVIEW

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.

¹ SecurityPower Benchmark traffic mix and policy.

KEY FEATURES

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

KEY BENEFITS

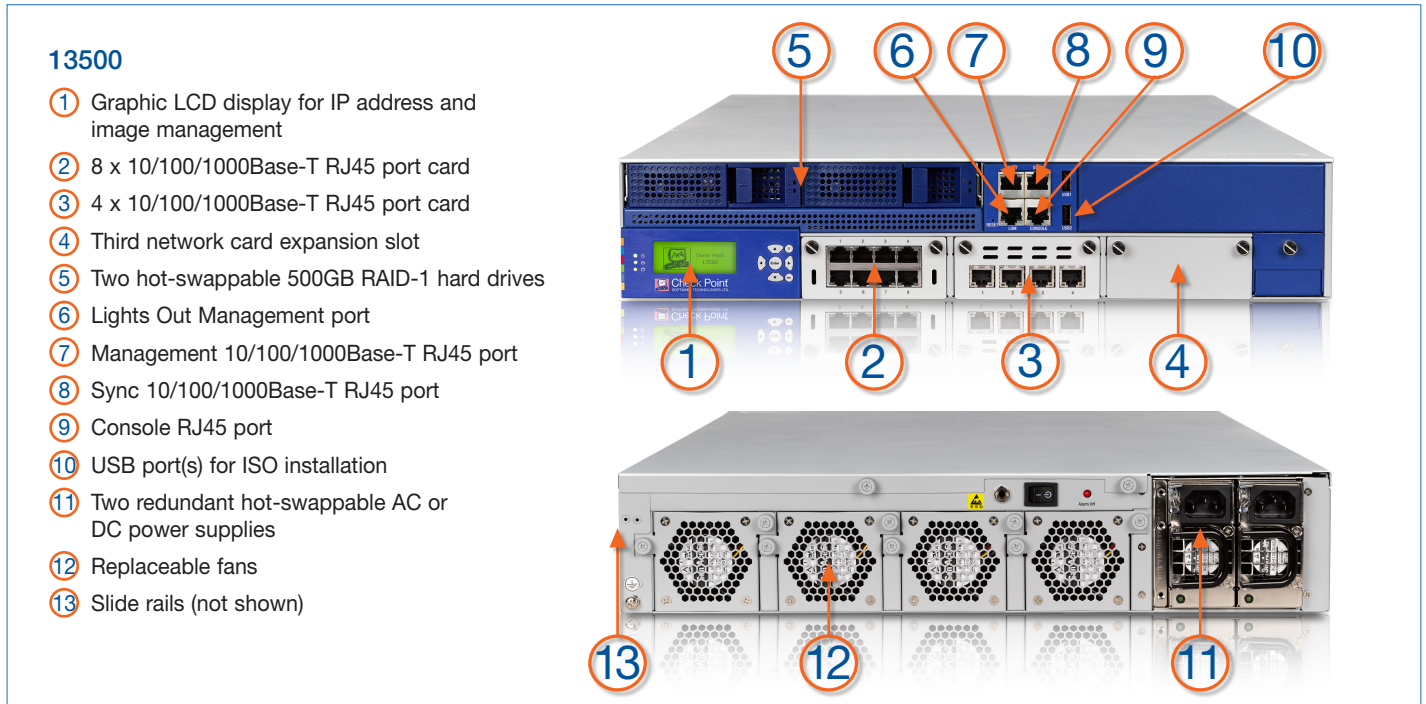
- Security of data center assets
- Modular, serviceable platform fits easily into complex networking environments
- High availability and redundant components eliminates down time
- Centralize control with unified security management and LOM
- Ideal for applications that require Next Generation security

GATEWAY SOFTWARE BLADES

| | NGFW | NGDP | NGTP | SWG |
|----------------------------------|------|------|------|-----|
| Firewall | ■ | ■ | ■ | ■ |
| IPsec VPN | ■ | ■ | ■ | ■ |
| Mobile Access (5 users) | ■ | ■ | ■ | * |
| Advanced Networking & Clustering | ■ | ■ | ■ | ■ |
| Identity Awareness | ■ | ■ | ■ | ■ |
| IPS | ■ | ■ | ■ | * |
| Application Control | ■ | ■ | ■ | ■ |
| Data Loss Prevention | * | ■ | * | * |
| URL Filtering | * | * | ■ | ■ |
| Antivirus | * | * | ■ | ■ |
| Anti-spam | * | * | ■ | * |
| Anti-Bot | * | * | ■ | * |

* Optional



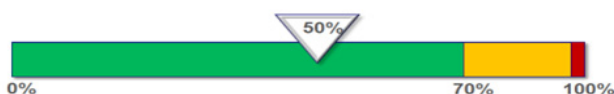


SECURITYPOWER

Until today security appliance selection has been based upon selecting specific performance measurements for each security function, usually under optimal lab testing conditions and using a security policy that has one rule. Today customers can select security appliances by their SecurityPower ratings which are based on real-world customer traffic, multiple security functions and a typical security policy.

SecurityPower is a benchmark that measures the capability and capacity of an appliance to perform multiple advanced security functions (Software Blades) such as IPS, DLP and Application Control in real world traffic conditions. This provides an effective metric to better predict the current and future behavior of appliances under security attacks and in day-to-day operations. Customer SecurityPower Unit (SPU) requirements, determined using the Check Point Appliance Selection Tool, can be matched to the SPU ratings of Check Point Appliances to select the right appliance for their specific requirements.

SecurityPower Utilization



NEXT GENERATION SECURITY SOLUTIONS

The Check Point 13500 Appliance offers a complete and consolidated security solution in a 2U form factor. Based on the Check Point Software Blade architecture, the 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 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.
- **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.

PREVENT UNKNOWN THREATS WITH THREATCLOUD EMULATION

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.



Datasheet: Check Point 13500 Appliance

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.

INCLUSIVE HIGH PERFORMANCE PACKAGE

Customers with high connection capacity requirements can purchase the affordable High Performance Package 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.

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.

TECHNICAL SPECIFICATIONS

| 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 10GBBase-F SFP+ interface card |
| 4 x 10GBBase-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 10GBBase-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 10GBBase-F SFP+ ports |
| 32, 48 or 64 GB memory |

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 combines the best features from IPSO and SecurePlatform into a single unified OS providing greater efficiency and robust performance. By upgrading to GAIa, customers will benefit from improved appliance connection capacity and reduced operating costs. With GAIa customers will gain the ability to leverage the full breadth and power of all Check Point Software Blades. 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. GAIa offers full compatibility with IPSO and SecurePlatform command line interfaces, making it an easy transition for existing Check Point customers.

| Production Performance ¹ |
|---|
| 3,200 SecurityPower |
| 23.6 Gbps firewall throughput |
| 5.7 Gbps firewall and IPS throughput |
| RFC 3511, 2544, 2647, 1242 Performance Tests (LAB) |
| 77 Gbps of firewall throughput, 1518 byte UDP |
| 17 Gbps of VPN throughput, AES-128 |
| 23 Gbps of IPS throughput, Default IPS profile, IMIX traffic blend |
| 7.8 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend |
| 7/28 ² million concurrent connections |
| 178,000 connections per second, 64 byte HTTP response |
| 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 |



Datasheet: Check Point 13500 Appliance

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|--|--|
| Virtual Systems | Operating Environmental Conditions |
| Max VSs: 150 (w/16GB), 250 (w/32GB) | Temperature: 32° to 104°F / 0° to 40°C |
| Dimensions | Humidity: 5%-90% (non-condensing) |
| Enclosure: 2RU | Storage Conditions |
| Standard (W x D x H): 17.4 x 23.6 x 3.5 in. | Temperature: -40° to 158°F, -40° to 70°C |
| Metric (W x D x H): 442 x 600 x 88 mm | Humidity: 5%-95% (non-condensing) |
| Weight: 17.5 kg (38.6 lbs.) | Certifications |
| Power Requirements | Safety: CB, UL/cUL, CSA, TUV |
| Input Voltage: 90 - 264VAC (47-63HZ), -36 to -72 VDC | Emissions: FCC. CE. VCCI. C-Tick |
| Inrush Current: 35A/70A@115VAC, 70A@230VAC, 35A@-48VDC | Environmental: RoHS |
| Single Power Supply Rating: 600W | ¹ Maximum R77 production performance based upon the SecurityPower benchmark. Real-world traffic. Multiple Software Blades. Typical rule base. NAT and Logging enabled. Check Point recommends 50% SPU utilization to provide room for additional Software Blades and future traffic growth. Find the right appliance for your performance and security requirements using the Appliance Selection Tool. |
| Power Consumption Maximum: 431W | ² With GAIa OS and 64GB memory upgrade. |
| Maximum thermal output: 1,730 BTU | |

SOFTWARE BLADE PACKAGE SPECIFICATIONS

| Base System | SKU |
|--|-----------------------|
| 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-NGFW-13500 |
| 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 gateways | CPAP-SG13500-NGTP |
| 13500 Next Generation Secure Web Gateway Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management and SmartEvent for up to 2 gateways | CPAP-SWG13500 |
| High Performance Packages | SKU |
| 13500 Next Generation Firewall Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG13500-NGFW-HPP |
| 13500 Secure Web Gateway Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SWG13500-HPP |
| 13500 Next Generation Data Protection Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG13500-NGDP-HPP |
| 13500 Next Generation Threat Prevention Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG13500-NGTP-HPP |
| Software Blades Packages ¹ | SKU |
| Next Generation Firewall 13500 Appliance Software Blade package for 1 year (with FW, VPN, ADNC, IA, MOB-5, IPS and APCL Blades) | CPSB-NGFW-13500-1Y |
| Next Generation Data Protection 13500 Appliance Software Blade package for 1 year (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, and DLP Blades) | CPSB-NGDP-13500-1Y |
| Next Generation Threat Prevention 13500 Appliance Software Blade package for 1 year (with FW, VPN, ADNC, IA, MOB-5, IPS, APCL, URLF, AV, ABOT and ASPM Blades) | CPSB-NGTP-13500-1Y |
| Next Generation Secure Web Gateway 13500 Appliance Software Blade package for 1 year (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades) | CPSB-SWG-13500-1Y |
| Additional Software Blades ¹ | SKU |
| 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-1Y |
| Check Point Anti-Bot blade for 1 year - for ultra high-end appliances and pre-defined systems | CPSB-ABOT-XL-1Y |

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



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| Virtual Systems Packages | SKU |
|--|-----------------|
| 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 |

ACCESSORIES

| Interface Cards and Transceivers | SKU |
|--|----------------------|
| 4 Port 10/100/1000Base-T RJ45 interface card for 13500 | CPAC-4-1C-13500 |
| 8 Port 10/100/1000Base-T RJ45 interface card for 13500 | CPAC-8-1C-13500 |
| 2 Port 1000Base-F SFP interface card; requires SFP transceivers per port | CPAC-2-1F |
| 4 Port 1000Base-F SFP interface card; requires additional SFP transceivers per port | CPAC-4-1F |
| SFP transceiver for 1000 Base-T RJ45 (copper) | CPAC-TR-1T |
| SFP long range transceiver (1000Base-LX) | CPAC-TR-1LX |
| SFP short range transceiver (1000Base-SX) | CPAC-TR-1SX |
| 2 Port 10GBase-F SFP+ interface card; requires 10GBase SFP+ transceiver per port | CPAC-2-10F |
| 4 Port 10GBase-F SFP+ interface card; requires 10GBase SFP+ transceiver per port | CPAC-4-10F |
| SFP+ long range transceiver (10GBase-LR) | CPAC-TR-10LR |
| SFP+ short range transceiver for (10GBase-SR) | CPAC-TR-10SR |
| Bypass Card | SKU |
| 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 |
| 4 Port 1GE copper Bypass (Fail-Open) interface card (10/100/1000 Base-T) | CPAC-4-1C-BP |
| Spares and Miscellaneous | SKU |
| 16 GB RAM memory upgrade for 13500 appliance | CPAC-RAM16GB-13500 |
| Replacement parts kit including 1 Hard Disk Drive, one AC power supply and one fan for 13500 Appliance | CPAC-SPARES-13500 |
| Replacement AC power supply for 13500 Appliance | CPAC-PSU-13500 |
| Replacement DC power supply for 13500 Appliance | CPAC-PSU-DC-13500 |
| Replacement 500G Hard Disk Drive for 13500 Appliance | CPAC-HDD-500G-13500 |
| Replacement fan for 13500 Appliance | CPAC-FAN-13500 |
| Slide rails for 13500 Appliances (22"-32") | CPAC-RAILS-13500 |
| Extended slide rails for 13500 Appliances (24"-36") | CPAC-RAILS-EXT-13500 |

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