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12400
Datacenter-grade security appliance

Check Point 12400 Appliance

Today the enterprise gateway is more than a firewall. It is a security device presented with an ever-increasing number of sophisticated threats. As an enterprise security gateway it must use multiple technologies to control network access, detect sophisticated attacks and provide additional security capabilities like data loss prevention and protection from web-based threats. The proliferation of mobile devices like smartphones and Tablets and new streaming, social networking and P2P applications requires a higher connection capacity and new application control technologies. Finally, the shift towards enterprise private and public cloud services, in all its variations, changes the company borders and requires enhanced capacity and additional security solutions.

Check Point's new appliances combine fast networking technologies with high performance multi-core capabilities—providing the highest level of security without compromising on network speeds to keep your data, network and employees secure. Optimized for the Software Blades Architecture, each appliance is capable of running any combination of Software Blades—providing the flexibility and the precise level of security for any business at every network location by consolidating multiple security technologies into a single integrated solution.

Each Check Point Appliance supports the Check Point 3D security vision of combining policies, people and enforcement for unbeatable protection. To address evolving security needs, Check Point offers Next Generation Security packages of Software Blades focused on specific customer requirements. Threat Prevention, Data Protection, Web Security and Next Generation Firewall technologies are key foundations for a robust 3D Security blueprint.

OVERVIEW

With high security Software Blades performance and great scalability, the 12400 Appliance is a datacenter-grade platform offering advanced redundancy and modularity. In addition to two onboard 1 Gigabit copper Ethernet ports, three available expansion slots can be used to configure a variety of network options such as 1 Gigabit Ethernet copper, 1 Gigabit Ethernet fiber, and 10 Gigabit Ethernet fiber connections.

The 12400 default configuration includes an eight 1 Gigabit Ethernet copper expansion card. Fully loaded, the 12400 supports up to twenty-six 1 Gigabit Ethernet ports or twelve10 Gigabit Ethernet ports.

The 12400 includes Lights-Out-Management, hot-swappable power supplies and optional hot-swappable redundant disk drives.

KEY FEATURES

- 1185 SecurityPower™
- 9.1 Gbps production firewall throughput
- 2.1 Gbps production IPS throughput
- High port density with up to 26 ports
- Dual redundant hot swappable power supplies
- Lights-Out-Management

KEY BENEFITS

- Datacenter-grade appliance
- All-inclusive security appliance
- Simplifies administration with a single integrated management console
- Extensible Software Blade Architecture
- Ensures data security for remote access and site-to-site communications

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

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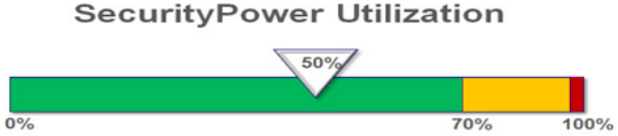
1. Graphic LCD display for management IP address and image management
2. Two USB ports for ISO installation
3. Console port RJ45
4. Management port 10/100/1000Base-T RJ45
5. Sync port 10/100/1000Base-T RJ45
6. Lights Out Management card
7. 500GB hard drive
8. Second hot-swappable 500GB RAID-1 hard drive (optional)
9. Three network card expansion slots (default one 8 x 10/100/1000Base-T port card)
10. 4GB RAM upgrade (optional)
11. Two redundant hot-swappable AC power supplies
12. Slide rails

With 1185 SecurityPower Units, the 12400 Appliance offers superior performance with real-world firewall throughput of 9.1 Gbps and real-world IPS throughput of 2.1 Gbps, all in a two rack unit (2RU) purpose-built security appliance.

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 new 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.



BUSINESS CONTINUITY, RELIABILITY AND EXTENSIBILITY

The Check Point 12400 appliance delivers business continuity and serviceability through features such as hot-swappable redundant power supplies, hot-swappable redundant hard disk drives (RAID) 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 customer networks.

ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 12400 Appliance offers a complete and consolidated security solution 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 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.

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- **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 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.

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.

REMOTE ACCESS CONNECTIVITY FOR MOBILE DEVICES

Each appliance arrives with mobile access connectivity for 5 users, using the Mobile Access Blade. This license will provide secure remote access to corporate resources from a wide variety of devices including smartphones, tablets, PCs, Mac and Linux.

REMOTE PLATFORM 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—THE UNIFIED SECURITY 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.

TECHNICAL SPECIFICATIONS

Base Configuration
2 on board 1GbE copper interface
8x1GbE copper interfaces card (for 1 of the 3 expansion slots)
4 GB memory
Redundant dual hot-swappable Power Supplies
500 GB hard disk drive
LOM card
Slide rails (22" to 32")
Network Expansion Slot Options (3 slots)
4 x 10/100/1000Base-T RJ45 ports
8 x 10/100/1000Base-T RJ45 ports
2 x 1000Base-F SFP ports
4 x 1000Base-F SFP ports
2 x 10GBase-F SFP+ ports
4 x 10GBase-F SFP+ ports
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
12 GB memory
2 x 500 GB HDD RAID-1
Production Performance[1]
1185 SecurityPower
9.1 Gbps firewall throughput
2.11 Gbps firewall and IPS throughput
RFC 3511, 2544, 2647, 1242 Performance Tests (LAB)
25 Gbps of firewall throughput, 1518 byte UDP
3.5 Gbps of VPN throughput, AES-128
50,000 max IPsec VPN tunnels
3.5 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend
1.2/5[2] million concurrent connections, 64 byte HTTP response
110,000 connections per second, 64 byte HTTP response

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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
Virtual Systems
Max VSs: 25 (w/4GB), 75 (w/12GB)
Dimensions
Enclosure: 2RU
Standard (W x D x H): 17.24 x 22.13 x 3.46 in.
Metric (W x D x H): 438 x 562 x 88 mm
Weight: 23.4 kg (51.6 lbs.)

Power Requirements
AC Input Voltage: 100 - 240V
Frequency: 47-63 Hz
Single Power Supply Rating: 300 W
Power Consumption Maximum: 132 W
Maximum thermal output: 450.4 BTU
Operating Environmental Conditions
Temperature: 32° to 104°F / 0° to 40°C
Humidity: 20% - 90% (non-condensing)
Storage Conditions
Temperature: –4° to 158°F / –20° to 70°C
Humidity: 5% - 95% @ 60°C (non-condensing)
Certifications
Safety: CB, UL/cUL, CSA, TUV, NOM, CCC, IRAM, PCT/GoST
Emissions: FCC, CE, VCCI, C-Tick, CCC, ANATEL, KCC
Environmental: RoHS

[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.

[2] With GAiA OS and memory upgrade

SOFTWARE BLADE PACKAGE SPECIFICATIONS

Base Packages[1]	SKU
12400 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-SG12400-NGFW
Secure Web Gateway 12400 Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management for up to 2 gateways and SmartEvent. Includes one CPAC-RAM4GB-12400 4 GB memory upgrade.	CPAP-SWG12400
12400 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-SG12400-NGDP
12400 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-SG12400-NGTP
Software Blades Packages[1]	**SKU**
12400 Next Generation Firewall Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW-12400-1Y
Secure Web Gateway 12400 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG-12400-1Y
12400 Next Generation Data Protection Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP-12400-1Y
12400 Next Generation Threat Prevention Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP-12400-1Y
Additional Software Blades[1]	**SKU**
Check Point Mobile Access Software Blade for unlimited concurrent connections	CPSB-MOB-U
Data Loss Prevention Software Blade for 1 year (for 1,500 users and above, up to 250,000 mails per hour and maximum throughput of 2.5 Gbps)	CPSB-DLP-U-1Y
Check Point IPS Software Blade for 1 year	CPSB-IPS-L-1Y
Check Point Application Control Software Blade for 1 year	CPSB-APCL-L-1Y
Check Point URL Filtering Software Blade for 1 year	CPSB-URLF-L-1Y
Check Point Antivirus Software Blade for 1 year	CPSB-AV-L-1Y
Check Point Anti-Spam & Email Security Software Blade for 1 year	CPSB-ASPM-L-1Y
Check Point Anti-Bot blade for 1 year - for high-end appliances and pre-defined systems	CPSB-ABOT-L-1Y

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

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VIRTUAL SYSTEMS PACKAGES

Description	SKU
50 Virtual Systems package	CPSB-VS-50
50 Virtual Systems package for HA/VSLS	CPSB-VS-50-VSLS
25 Virtual Systems package	CPSB-VS-25
25 Virtual Systems package for HA/VSLS	CPSB-VS-25-VSLS
10 Virtual Systems package	CPSB-VS-10
10 Virtual Systems package for HA/VSLS	CPSB-VS-10-VSLS

ACCESSORIES

Interface Cards and Transceivers	SKU
2 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceiver modules per interface port	CPAC-2-1F
4 Port 10/100/100 Base-T RJ45 interface card	CPAC-4-1C
8 Port 10/100/100 Base-T RJ45 interface card	CPAC-8-1C
4 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceiver modules per interface port	CPAC-4-1F
SFP transceiver for 1000Base-T RJ45 (copper)	CPAC-TR-1T
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
2 Port 10GBase-F SFP+ interface card; requires an additional 10GBase SFP+ transceiver per interface port	CPAC-2-10F
4 Port 10GBase-F SFP+ interface card; requires an additional 10GBase SFP+ transceiver per interface 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	**SKU**
2 Port 10GE short-range Fiber Bypass (Fail-Open) Network interface card (10000Base-SR)	CPAC-2-10FSR-BP
2 Port 10GE long-range Fiber Bypass (Fail-Open) Network interface card (10000Base-LR)	CPAC-2-10FLR-BP
4 Port 1GE short-range Fiber Bypass (Fail-Open) Network interface card (1000Base-SX)	CPAC-4-1FSR-BP
4 Port 1GE long-range Fiber Bypass (Fail-Open) Network interface card (1000Base-LX)	CPAC-4-1FLR-BP
4 Port 1GE copper Bypass (Fail-Open) Network interface card (10/100/1000 Base-T)	CPAC-4-1C-BP
Spares and Miscellaneous	**SKU**
4GB RAM Memory upgrade for 12400 appliances	CPAC-RAM4GB-12400
Replacement parts kit (including 1 Hard Disk Drive, and one Power Supply) for 12400 appliance	CPAC-SPARES-12400
Replacement AC Power Supply for 12400 appliance	CPAC-PSU-12400
Additional/replacement 500G Hard Disk Drive for 12400 appliance	CPAC-HDD-500G
Slide RAILS for 4000 and 12000 Appliances (22"-32")	CPAC-RAILS
Extended Slide Rails for 4000 and 12000 Appliances (26"-36")	CPAC-RAILS-EXT

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