Check Point®
SOFTWARE TECHNOLOGIES LTD.
We Secure the Internet.

4800

Enterprise-grade security appliance (623 SPU/11Gbps)— great multi-blade performance and 10Gb Fiber connectivity options

Check Point 4800 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 and is optimized for enabling any combination of the following Software Blades: (1) Firewall, (2) VPN, (3) IPS, (4) Application Control, (5) Mobile Access, (6) DLP, (7) URL Filtering, (8) Antivirus, (9) Anti-spam, (10) Anti-Bot, (11) Identity Awareness and (12) Advanced Networking & Clustering.

OVERVIEW

The Check Point 4800 Appliance offers a complete and consolidated security solution, with leading performance in a 1U form factor. In addition to eight onboard 1 Gigabit copper Ethernet ports, the 4800 also comes with an available expansion slot which provides the option to add four or eight 1 Gigabit copper Ethernet ports, two or four 1 Gigabit fiber Ethernet ports or two 10 Gigabit fiber Ethernet ports.

With 623 SecurityPower Units, the 4800 Appliance offers superior performance for its price range with a firewall throughput of 11 Gbps and IPS throughput of 6 Gbps.

KEY FEATURES

- 623 SecurityPower™
- 11 Gbps of firewall throughput
- 6 Gbps of IPS throughput
- Up to 16 10/100/1000Base-T ports
- Up to 4 1GbE or 2 10GbE Fiber ports
- Lights-Out-Management (LOM)

KEY BENEFITS

- Mid-size, enterprise-grade appliance optimized for multiple Software Blades performance
- Delivers everything you need to secure your network in one appliance
- Simplifies administration with a single integrated management console
- Ensures data security by securing remote access and site-to-site communications
- Provides comprehensive security and protects against emerging threats with Extensible Software Blade Architecture

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. One network card expansion slot
2. Lights Out Management card
3. 8 x 10/100/1000Base-T RJ45 ports
4. Two USB ports for ISO installation
5. Console port RJ45
6. Graphic LCD display for management IP address and image management
7. One AC power supply
8. Second redundant hot-swappable AC power supply (optional)
9. 4GB RAM upgrade (optional)
10. Slide rails

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.

SecurityPower Utilization

50%

0%   70%   100%
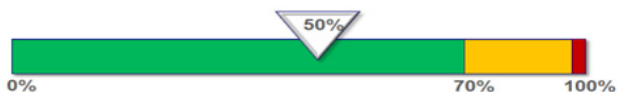
ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 4800 Appliance offers a complete and consolidated security solution in a compact 1U chassis based on the Check Point Software Blade Architecture. Available with 4 software packages, the platform provides up-to-date and extensible security protection.

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

- **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.

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 enables 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) interface 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.

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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
8 x 10/100/1000Base-T RJ45 ports

4 GB memory

250 GB hard disk drive

One AC power supply

Slide rails (22" to 32")

LOM card

Network Expansion Slot Options (1 slot)
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 10GBaseF 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
16 x 10/100/1000Base-T RJ45 ports

8 x 10/100/1000Base-T RJ45 + 4 x 1000Base-F SFP ports

8 x 10/100/1000Base-T RJ45 + 2 x 10GBase-F SFP+ ports

8 GB memory

Two redundant hot-swappable power supplies

Production Performance[1]
623 SecurityPower

5.8 Gbps firewall throughput

850 Mbps firewall and IPS throughput

RFC 3511, 2544, 2647, 1242 Performance Tests (LAB)
11 Gbps of firewall throughput, 1518 byte UDP

2 Gbps of VPN throughput, AES-128

6 Gbps of IPS throughput, Default IPS profile, IMIX traffic blend

1.5 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend

1.7/3.3[2] million concurrent connections, 64 byte HTTP response

70,000 connections per second, 64 byte HTTP response

Network Connectivity
IPv4 and IPv6

1024 VLANs

256 VLANs per interface

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: 20 (w/4GB), 25 (w/8GB)

Dimensions
Enclosure: 1U

Standard (W x D x H): 17.25 x 16.14 x 1.73 in.

Metric (W x D x H): 438 x 410 x 44 mm

Weight: 7.6 kg (16.76 lbs.)

Power Requirements
AC Input Voltage: 100 - 240V

Frequency: 47-63 Hz

Single Power Supply Rating: 275 W

Power Consumption Maximum: 140 W

Maximum thermal output: 425.6 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 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

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SOFTWARE PACKAGE SPECIFICATIONS

Base Packages[1]	SKU
4800 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-SG4800-NGFW
Secure Web Gateway 4800 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 4 GB memory upgrade.	CPAP-SWG4800
4800 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-SG4800-NGDP
4800 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-SG4800-NGTP
Software Blades Packages[1]	**SKU**
4800 Next Generation Firewall Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW-4800-1Y
Secure Web Gateway 4800 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG-4800-1Y
4800 Next Generation Data Protection Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP-4800-1Y
4800 Next Generation Threat Prevention Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP-4800-1Y
Additional Software Blades[1]	**SKU**
Check Point Mobile Access Blade for up to 200 concurrent connections	CPSB-MOB-200
Data Loss Prevention Blade for 1 year (for 500 to 1,500 users, up to 50,000 mails per hour and max throughput of 1.5 Gbps)	CPSB-DLP-1500-1Y
Check Point IPS blade for 1 year	CPSB-IPS-M-1Y
Check Point Application Control blade for 1 year	CPSB-APCL-M-1Y
Check Point URL Filtering blade for 1 year	CPSB-URLF-M-1Y
Check Point Antivirus Blade for 1 year	CPSB-AV-M-1Y
Check Point Anti-Spam & Email Security Blade for 1 year	CPSB-ASPM-M-1Y
Check Point Anti-Bot Blade for 1 year - for mid appliances and pre-defined systems	CPSB-ABOT-M-1Y

[1] High Availability (HA) and SKUs for 2 and 3 years are available, see the online Product Catalog.

VIRTUAL SYSTEMS PACKAGES

Description	SKU
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
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 module for 1G fiber ports—long range (1000Base-LX) for CPAC-4-1F	CPAC-TR-1LX
SFP transceiver module for 1G fiber ports—short range (1000Base-SX) for CPAC-4-1F	CPAC-TR-1SX
2 Port 10GBase-F SFP+ interface card; requires an additional 10GBase SFP+ transceiver per interface port	CPAC-2-10F
SFP+ transceiver module for 10G fiber ports—long range (10GBase-LR) for CPAC-2-10F, CPAC-4-10F	CPAC-TR-10LR
SFP+ transceiver module for 10G fiber ports—short range (10GBase-SR) for CPAC-2-10F, CPAC-4-10F	CPAC-TR-10SR

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Bypass Card	
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 4800 appliances	CPAC-RAM4GB
Additional/replacement AC Power Supply for 4800 appliance	CPAC-PSU-4800
Slide RAILS for 4000 and 12000 Appliances (22"-32")	CPAC-RAILS
Extended Slide Rails for 4000 and 12000 Appliances (26"-36")	CPAC-RAILS-EXT