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# CHECK POINT 12600 APPLIANCE



## CHECK POINT 12600 APPLIANCE

Datacenter-grade security appliances

### Product Benefits

- Secure data-center assets
- All-inclusive security appliance
- Simplify administration with a single integrated management console
- Extensible with the Software Blade Architecture

### Product Features

- 2050 SecurityPower™
- 14 Gbps production firewall throughput
- 3.5 Gbps production IPS throughput
- High port density with up to 26 ports
- Dual redundant hot swappable power supplies and HDD
- Lights-Out-Management

## 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

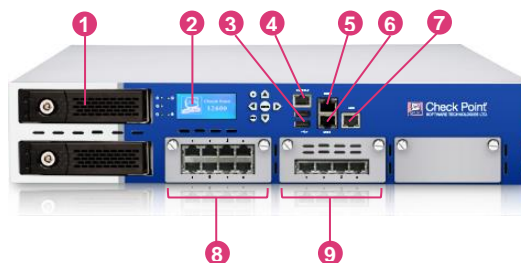
With high security Software Blades performance and great scalability, the 12600 Appliance is a datacenter-grade platform offering advanced redundancy and modularity. In addition to two onboard 1 Gigabit copper Ethernet ports, three available expansion slots can be used to configure a variety of network options such as 1 Gigabit Ethernet copper, 1 Gigabit Ethernet fiber, and 10 Gigabit Ethernet fiber connections.

The 12600 default configuration includes eight 1 Gigabit Ethernet copper ports and a four 1 Gigabit Ethernet copper port expansion card. Fully loaded, the 12600 includes a total of twenty-six 1 Gigabit Ethernet ports or twelve 10 Gigabit Ethernet ports.

The 12600 includes Lights-Out-Management (LOM) and hot swappable redundant disk drives and power supplies. The 12600 Appliance is a two rack unit (2RU) security appliance, with 2050 SecurityPower Units, that offers real-world firewall throughput of 14 Gbps and real-world IPS throughput of 3.6 Gbps.

## 12600

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



## ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 12600 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 12 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 12600 Appliances deliver business continuity and serviceability through features such as hot-swappable redundant power supplies, hard disk drives 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 Performance<sup>1</sup>

- 2050 SecurityPower
- 14 Gbps firewall throughput
- 3.58 Gbps firewall and IPS throughput

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

- 30 Gbps firewall, 1518 byte UDP
- 7 Gbps VPN, AES-128
- 55,000 max IPsec VPN tunnels
- 6 Gbps IPS, Recommended IPS profile, IMIX traffic blend
- 2.5/5<sup>2</sup> million concurrent connections
- 130,000 connections per second, 64 byte HTTP response

### EXPANSION OPTIONS

#### Base Configuration

- 2 on board 1GbE copper interface
- 4x1GbE copper interfaces card
- 8x1GbE copper interfaces card
- 6 GB memory
- Redundant dual hot-swappable Power Supplies
- Redundant dual hot-swappable 500G Hard Drives
- 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

#### Virtual Systems

- Max VSs: 75 (w/6GB), 150 (w/12GB)

### 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

- AC Input Voltage: 100 - 240V
- Frequency: 47-63 Hz
- Single Power Supply Rating: 400 W
- Power Consumption Maximum: 220 W
- Maximum thermal output: 750.6 BTU

#### 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.)

#### 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% to 95% @60°C

#### Certifications

- Safety: CB, UL/cUL, CSA, TUV, NOM, CCC, IRAM, PCT/GoST
- Emissions: FCC, CE, VCCI, C-Tick, CCC, ANATEL, KCC
- Environmental: RoHS

<sup>1</sup>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.

<sup>2</sup>With GaiA OS and 64 GB memory upgrade

## APPLIANCE PACKAGES

BASE CONFIGURATION <sup>1,2</sup>	
12600 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-SG12600-NGFW
Secure Web Gateway 12600 Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management and SmartEvent for up to 2 gateways.	CPAP-SWG12600
12600 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-SG12600-NGDP
12600 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-SG12600-NGTP
12600 Next Generation Firewall Appliance with 20 Virtual Systems	CPAP-SG12600-NGFW-VS20
12600 Next Generation Firewall Appliance Bundle, one primary and one HA, with 20 VS	CPAP-SG12600-NGFW-VS20-2

HIGH PERFORMANCE PACKAGES <sup>1,2</sup>	
12600 Next Generation Firewall Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 12 GB of memory for high connection capacity	CPAP-SG12600-NGFW-HPP
12600 Secure Web Gateway Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 12 GB of memory for high connection capacity.	CPAP-SWG12600-HPP
12600 Next Generation Data Protection Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 12 GB of memory for high connection capacity.	CPAP-SG12600-NGDP-HPP
12600 Next Generation Threat Prevention Appliance High Performance Package with 8x10/100/1000Base-T interface card, 4x10Gb SFP+ interface card, 4xSR transceivers and 12 GB of memory for high connection capacity.	CPAP-SG12600-NGTP-HPP
12600 Next Generation Firewall Appliance with 20 Virtual Systems and the High Performance Package	CPAP-SG12600-NGFW-VS20-HPP
12600 Next Generation Firewall Appliance Bundle, one primary and one HA, with 20 Virtual Systems and the High Performance Package	CPAP-SG12600-NGFW-VS20-HPP-2

<sup>1</sup> SKUs for 2 and 3 years are available, see the online Product Catalog

<sup>2</sup> DC power SKUs are also available

## SOFTWARE BLADE PACKAGES

SOFTWARE BLADE PACKAGES <sup>1</sup>	
12600 NGFW Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW-12600-1Y
Secure Web Gateway 12600 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG-12600-1Y
12600 NGDP Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP-12600-1Y
12600 NGTP Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP-12600-1Y

SOFTWARE BLADES <sup>1</sup>	
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

<sup>1</sup> 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	CPAC-4-1C
8 Port 10/100/100 Base-T RJ45 interface card	CPAC-8-1C
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	
6 GB RAM memory upgrade for 12600 appliance	CPAC-RAM6GB-12600
Replacement parts kit including 1 Hard Disk Drive, one AC power for 12600 Appliance	CPAC-SPARES-12600
Replacement AC power supply for 12600 Appliance	CPAC-PSU-12600
Replacement 500G Hard Disk Drive for 12600 Appliance	CPAC-HDD-500G
Slide rails for 4000 and 12000 Appliances (22"-32")	CPAC-RAIL
Extended slide rails for 4000 and 12000 Appliances (26"-36")	CPAC-RAIL-EXT

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