CHECK POINT 21400 APPLIANCE

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Datacenter-grade security appliances

Product Benefits

- Fits easily into complex networks
- Redundancy eliminates downtime
- Centralized control with LOM
- Ideal for low latency transactions
- Extensible Software Blade Architecture

Product Features

- 2175/2900[1] SecurityPower™ Units
- Optimized for low latency
- High port density
- High availability and serviceability
- Simple deployment and management

INSIGHTS

Today the Internet gateway is more than a firewall. It is a security device presented with an ever-increasing number of sophisticated threats. As a 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.

SOLUTION

Leveraging its multi-core and acceleration technologies, with 2991 SecurityPower Units, the Check Point 21400 appliance supports lightning-fast firewall throughput of up to 110 Gbps[1] with sub 5µs latency. The 21400 is designed from the ground up for unmatched flexibility for even the most demanding enterprise and data center network environments.

The 21400 appliance has 3 expansion slots supporting a wide range of network options. The standard configuration includes one on-board 10/100/1000 RJ-45 Management port and a twelve 1 Gigabit Ethernet copper port card. A maximally configured 21400 provides up to 37 Gigabit Ethernet copper ports or 36 fiber ports or twelve 10 Gigabit Ethernet fiber ports.

The 21400 appliance chassis is highly serviceable. Access to all components is available from the front and the back of the unit when mounted in the rack. There is one slot for an optional Security Acceleration Module to boost performance of the appliance. In addition to hot-swappable redundant disk drives and power supply units, the 21400 appliance also supports Lights-Out-Management (LOM) for remote support and maintenance capabilities.

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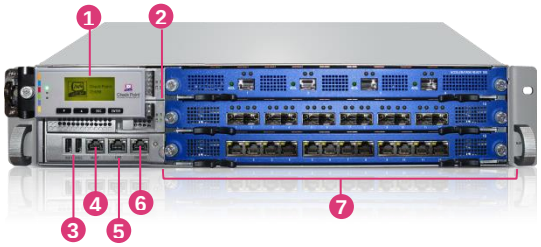
21400

1. Graphic LCD display
2. 2 x 500 GB RAID1 HDD
3. USB port for ISO installation
4. Management 10/100/1000Base-T RJ45
5. Lights-Out Management port
6. Console port
7. Three network card expansion slots



SECURITY ACCELERATION MODULE

The optional Check Point Security Acceleration Module (SAM-108) for the 21000 Appliances is ideal for latency-sensitive applications such as financial trading and VoIP communication. With sub 5 micro-seconds firewall latency, this purpose-built acceleration module boasts 108 SecurityCores™ accelerating traffic on all Acceleration-Ready interface ports with a single SAM-108. Performance for the 21400 appliance is boosted to 110 Gbps of firewall throughput, 50 Gbps of VPN throughput and 300,000 connections per second.

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 an Acceleration Ready 4x10Gb SFP+ interface card, transceivers and 64 GB of memory for high connection capacity. The SAM-108 High Performance Package also includes transceivers, 64 GB of memory in the appliance and 48 GB of memory in the Security Acceleration Module.

A RELIABLE SERVICEABLE PLATFORM

The Check Point 21400 appliance delivers business continuity and serviceability through features such as hot-swappable redundant power supplies, hot-swappable redundant hard disk drives (RAID), redundant fans 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 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.

ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 21400 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.

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.

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SPECIFICATIONS

PERFORMANCE

Production Performance[2]

- 2175/2900[1] SecurityPower
- 17.1–44.3[1] Gbps firewall throughput
- 3.67 Gbps firewall and IPS throughput

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

- 50–110 [1] Gbps of firewall throughput, 1518 byte UDP
- 7–50 [1] Gbps of AES-128 VPN throughput
- 6 Gbps of IPS throughput, IPS Recommended profile, IMIX traffic blend
- 5–10 million concurrent connections, 64 byte response
- 130,000–300,000 [1] connections per second, 64 byte response

EXPANSION OPTIONS

Base Configuration

- 1 on-board 10/100/1000Base-T RJ45
- 12 x 10/100/1000BaseT RJ45 NIC (default)
- 12 GB memory
- Redundant dual hot-swappable power supplies
- Redundant dual hot-swappable 500GB hard drives
- LOM card
- Telescopic rails (26"–35")

Network Expansion Slot Options (3 slots)

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

Max Configuration

- Up to 37 x 10/100/1000Base-T RJ45 ports
- Up to 36 x 1000Base-F SFP ports
- Up to 12 x 10GBase-F SFP+ ports
- 24 GB RAM

Virtual Systems

- Max VSs: 125 (w/12GB), 250 (w/24GB)

[1] With Security Acceleration Module

[2] 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.

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: 47-63Hz
- Single Power Supply Rating: 910W
- Power Consumption Maximum: 449W/744W[1]
- Maximum thermal output: 1533 BTU/2539 BTU[1]

Dimensions

- Enclosure: 2RU
- Standard (W x D x H): 17 x 28 x 3.5 in.
- Metric (W x D x H): 431 x 710 x 88 mm
- Weight: 26 kg (57.4 lbs.)

Operating Environmental Conditions

- Temperature: 32°to104°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% at 60°C (non-condensing)

Certifications

- Safety: UL/cULT
- Emissions: FCC, CE
- Environmental: RoHS

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APPLIANCE PACKAGES

BASE CONFIGURATION[1,]	
21400 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-SG21400-NGFW
Secure Web Gateway 21400 Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management and SmartEvent for up to 2 gateways.	CPAP-SWG21400
21400 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-SG21400-NGDP
21400 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-SG21400-NGTP
21400 Next Generation Firewall Appliance with 20 Virtual Systems	CPAP-SG21400-NGFW-VS20
21400 Next Generation Firewall Appliance Bundle, one primary and one HA, with 20 VS	CPAP-SG21400-NGFW-VS20-2
HIGH PERFORMANCE PACKAGES[1]	
21400 Next Generation Firewall Appliance High Performance Package with 12x1GbE copper interface card, Acceleration Ready 4x10Gb SFP+ interface card, 4xSR transceivers and 24 GB of memory for high connection capacity	CPAP-SG21400-NGFW-HPP
21400 Next Generation Firewall High Performance Package Appliance with SAM-108 Security Acceleration Module, an Acceleration Ready 4x10Gb SFP+ interface card, 4xSR transceivers, 24 GB of memory in the appliance and 48 GB of memory in the Security Acceleration Module.	CPAP-SG21400-NGFW-HPP-SAM-BUN
21400 Secure Web Gateway Appliance High Performance Package with 12x1GbE copper interface card, Acceleration Ready 4x10Gb SFP+ interface card, 4xSR transceivers and 24 GB of memory for high connection capacity.	CPAP-SWG21400-HPP
21400 Next Generation Data Protection Appliance High Performance Package with 12x1GbE copper interface card, Acceleration Ready 4x10Gb SFP+ interface card, 4xSR transceivers and 24 GB of memory for high connection capacity.	CPAP-SG21400-NGDP-HPP
21400 Next Generation Threat Prevention Appliance High Performance Package with 12x1GbE copper interface card, Acceleration Ready 4x10Gb SFP+ interface card, 4xSR transceivers and 24 GB of memory for high connection capacity.	CPAP-SG21400-NGTP-HPP
21400 Next Generation Firewall Appliance with 20 Virtual Systems and the High Performance Package	CPAP-SG21400-NGFW-VS20-HPP
21400 Next Generation Firewall Appliance Bundle, one primary and one HA, with 20 Virtual Systems and the High Performance Package	CPAP-SG21400-NGFW-VS20-HPP-2

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

SOFTWARE BLADE PACKAGES

SOFTWARE BLADE PACKAGES[1]	
21400 Next Generation Firewall Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW- 21400-1Y
Secure Web Gateway 21400 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG- 21400-1Y
21400 Next Generation Data Protection Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP- 21400-1Y
21400 Next Generation Threat Prevention Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP- 21400-1Y
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

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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/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

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

ACCESSORIES

SECURITY ACCELERATION MODULE	
Security Acceleration Module with 12 GB RAM	CPAC-SAM108-V2
Memory upgrade kit to 24GB RAM for SAM-108	CPAC-RAM24GB-SAM108
Memory upgrade kit to 48GB RAM for SAM-108	CPAC-RAM48GB-SAM108
Security Acceleration Module with 24 GB RAM	CPAC-SAM108-24GB
Security Acceleration Module with 48 GB RAM	CPAC-SAM108-48GB
INTERFACE CARDS AND TRANSCEIVERS	
12 Port 10/100/1000 Base-T RJ45 interface card	CPAC-12-1C-21000
12 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceiver modules per interface port	CPAC-12-1F-21000
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
4 Port 10GBase-F SFP+ Acceleration Ready interface card	CPAC-ACCL-4-10F-21000
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
SPARES AND MISCELLANEOUS	
12 GB RAM Memory upgrade for 21400 appliance	CPAC-RAM12GB-21000
Replacement parts kit (including 1 Hard Disk Drive, one Power Supply, one Fan) for 21400 appliance	CPAC-SPARES-21400
500 GB Hard Drive for 21000 Appliances	CPAC-HDD-500G-21000
Replacement AC Power Supply for 21400 appliance	CPAC-PSU-21400

CONTACT US

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