



21400

Datacenter-grade security appliance (2900 SPU/110 Gbps¹) with high port density, low latency and acceleration options

Check Point 21400 Appliance

Today's firewall 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 iPhones 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 21400 Appliance combines 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, the 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.

The 21400 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

Leveraging its multi-core and acceleration technologies, with 2900 SecurityPower Units, the Check Point 21400 appliance supports lightning fast firewall throughput of up-to 110 Gbps¹ with sub 5µs latency and IPS throughput of more than 21 Gbps. 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 21400 standard configuration includes a twelve 1 Gigabit Ethernet copper port card. A maximally configured 21400 provides up to 36 Gigabit Ethernet copper or fiber ports or twelve 10 Gigabit Ethernet fiber ports.

¹With Security Acceleration Module

KEY FEATURES

- 2003 - 2900¹ SecurityPower™
- Simple Deployment and Management
- High Availability and Serviceability
- Optimized for Software Blades Architecture
- Optimized for low latency
- High Port Density
- Maximum Security and Performance

KEY BENEFITS

- Security of data center assets
- A 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 low latency transactions

GATEWAY SOFTWARE BLADES

	21407	21408	21409	21410	21412
Firewall	■	■	■	■	■
IPsec VPN	■	■	■	■	■
Mobile Access (5 users)	■	■	■	■	■
Advanced Networking and Clustering*	■	■	■	■	■
Identity Awareness	■	■	■	■	■
IPS	■	■	■	■	■
Application Control	■	■		■	■
Data Loss Prevention		■			■
URL Filtering			■	■	■
Antivirus			■	■	■
Anti-spam				■	■
Anti-Bot			■		

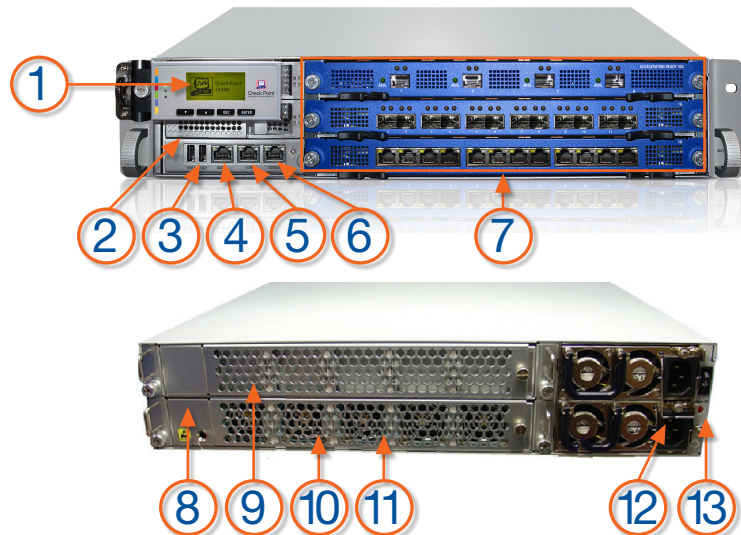
* Counted separately in the 21412 bundle



Datasheet: Check Point 21400 Appliance

21400

- ① Graphic LCD display for IP address and image management
- ② Two hot-swappable 500GB RAID-1 hard drives
- ③ Two USB ports for ISO installation
- ④ Management port 10/100/1000Base-T RJ45
- ⑤ Lights Out Management card
- ⑥ Console port RJ45
- ⑦ Three network card expansion slots (default one 12 x 10/100/1000Base-T port card)
- ⑧ Removable mother board
- ⑨ Security Acceleration Module slot
- ⑩ Removable fans
- ⑪ 12GB RAM upgrade (optional)
- ⑫ Two redundant hot-swappable AC power supplies
- ⑬ Telescopic rails



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

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.

SECURITY ACCELERATION MODULE

The optional Check Point Security Acceleration Module (SAM-108) for the 21400 Appliance 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 interface ports with a single SAM-108. Performance for the 21400 appliance is boosted to 110 Gbps of firewall throughput and 300,000 connections per second and 37 Gbps of VPN throughput.

The 21400 Appliance may be purchased with a Security Acceleration Module bundle pre-installed resulting in a significant cost savings. Included in the SAM-108 bundle is one 4 x 10 GbE Acceleration Ready card instead of the default 12 x 1 GbE network interface card.

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.

BUSINESS CONTINUITY, RELIABILITY AND EXTENSIBILITY

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 ACCESS CONNECTIVITY FOR MOBILE DEVICES

The 21400 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) 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
1 on-board 10/100/1000Base-T RJ45
12 x 10/100/1000BaseT RJ45 NIC (default) or 4 x 10GbE SFP+ Acceleration Ready NIC (with SAM-108 bundle)
Security Acceleration Module (with SAM-108 bundle)
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 10GBBase-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 10GBBase-F SFP+ ports
24 GB RAM
Performance
2003-2900 ¹ SecurityPower ²
50 - 110 ¹ Gbps of firewall throughput, 1518 byte UDP
7 - 37 ¹ Gbps of VPN throughput, AES-128
21 Gbps of IPS throughput Default IPS profile
6 Gbps of IPS throughput, recommended IPS profile
5/10 ³ (default/max) million concurrent connections
130,000/300,000 ¹ connections per second
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: 125 (w/12GB), 250 (w/24GB)
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.)
Power Requirements
AC Input Voltage: 100-240V
Frequency: 47-63Hz
Single Power Supply Rating: 910W
Power Consumption Maximum: 449 W
Maximum thermal output: 1533 BTU
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: CB, UL/cUL, CSA, TUV, NOM, CCC, IRAM, PCT/GoST
Emissions: FCC, CE, VCCI, C-Tick, CCC, ANATEL, KCC
Environmental: RoHS

¹With Security Acceleration Module

²A metric to measure appliance performance based on real world traffic given the deployed software blades. Find the right appliance for your performance and security needs.

³With the Gaia OS and memory upgrade.



SOFTWARE PACKAGE SPECIFICATIONS

Base System	SKU
21400 Appliance with 12 Security blades (including Firewall, VPN, Advanced Networking, Acceleration and Clustering, Identity Awareness, and Mobile Access for 5 concurrent users, IPS, Application Control, URL Filtering, Antivirus, Anti-Spam & Email Security, and DLP blades); bundled with local management for up to 2 gateways	CPAP-SG21412
21407 Appliance with 7 Security Software Blades (including Firewall, VPN, Advanced Networking & Clustering, Identity Awareness, Mobile Access for 5 concurrent users, IPS, and Application Control Software Blades); bundled with local management for up to 2 gateways	CPAP-SG21407
21407 + SAM108 bundle includes the 21407 Software Blade package with the Security Acceleration Module, CPAC-SAM108, and one 4 x 10GbE Acceleration Ready interface card, CPAC-ACCL-4-10F-21000, pre-installed instead of the default 12 x 10/100/1000BaseT interface card, CPAC-12-1C-21000.	CPAP-SG21407-SAM-BUN
21408 Appliance with 8 Security blades (including Firewall, VPN, Advanced Networking & Clustering, Identity Awareness, Mobile Access for 5 concurrent users, IPS, Application Control, and DLP blades); bundled with local management for up to 2 gateways	CPAP-SG21408
21409 Appliance with 9 Security blades (including Firewall, VPN, Advanced Networking & Clustering, Identity Awareness, and Mobile Access for 5 concurrent users, IPS, URL Filtering, Antivirus and Anti-Bot Security blades); bundled with local management for up to 2 gateways	CPAP-SG21409
21410 Appliance with 10 Security Software Blades (including Firewall, VPN, Advanced Networking & Clustering, Identity Awareness, and Mobile Access for 5 concurrent users, IPS, Application Control, URL Filtering, Antivirus, and Email Security Software Blades); bundled with local management for up to 2 gateways	CPAP-SG21410
Software Blades Packages	SKU
Check Point Extended Security Software Blades Package for 1 year for 21400 appliance (including IPS, URL Filtering, Application Control, Antivirus, Email Security, and DLP Software Blades)	CPSB-ESEC-6B-21400-1Y
Check Point UTM+ Software Blades Package for 1 year for 21400 appliance (including IPS, URL Filtering, Application Control, Antivirus, and Email Security Software Blades)	CPSB-UTMP-5B-21400-1Y
Check Point Threat Prevention Software Blades Package for 1 year for 21400 (including IPS, Anti-Bot, URL Filtering and Antivirus blades)	CPSB-TPRV-4B-21400-1Y
Secure Web Gateway Software Blades package for 1 year for SWG-21400	CPSB-SWG-3B-21400-1Y
Check Point DLP+ Software Blades Package for 1 year for 21400 appliance (including IPS, Application Control, and DLP)	CPSB-DLPP-3B-21400-1Y
Check Point Extended Threat Protection Software Blades Package for 1 year for 21400 (including Application Control and IPS Software Blades)	CPSB-ETPR-2B-21400-1Y
Check Point Web Control Software Blades Package for 1 year for 21400 (including Application Control and URL Filtering Software Blades)	CPSB-WBCL-2B-21400-1Y
Check Point Anti-Malware Package for 1 year for 21400 (including Anti-Bot and AV blades)	CPSB-ABAV-2B-21400-1Y
Software Blades	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
Virtual Systems Packages	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
Security Acceleration Module	CPAC-SAM108
4 Port 10GBase-F SFP+ Acceleration Ready interface card	CPAC-ACCL-4-10F-21000
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) for CPAC-12-1F network interface card	CPAC-TR-1LX-21000
SFP transceiver module for 1G fiber ports - short range (1000Base-SX) for CPAC-12-1F network interface card	CPAC-TR-1SX-21000
SFP transceiver to 1000 Base-T RJ45 (Copper) for CPAC-12-1F	CPAC-TR-1T-21000
4 Port 10GBase-F SFP+ interface card; requires an additional 10GBase SFP+ transceiver per interface port	CPAC-4-10F-21000
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR) for CPAC-4-10F-21000 network interface card	CPAC-TR-10LR-21000
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR) for CPAC-4-10F-21000 network interface card	CPAC-TR-10SR-21000
Spares and Miscellaneous	
12GB 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
Replacement AC Power Supply for 21400 appliance	CPAC-PSU-21000
Replacement 500G Hard Disk Drive for 21400 appliance	CPAC-HDD-500G-21000

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