

Datasheet: Check Point 12200 Appliance



12200
Datacenter-grade security appliance

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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

The Check Point 12200 Appliance is a datacenter-grade platform ideally suited for securing advanced internal networks and large networks as a perimeter gateway. Its Multi-core security technology and high port density provide superior price performance on key investment criteria such as price-per-port and price-per-GB, all in a one rack unit (1RU) security appliance.

The 12200 Appliance's flexible modular interface design supports eight onboard 1 Gigabit copper Ethernet ports and with one expansion slot, an additional four or eight 1 Gigabit copper Ethernet ports, two or four 1 Gigabit fiber Ethernet ports or two or four 10 Gigabit fiber Ethernet ports.

With 811 SPU Units, the 12200 Appliance offers superior performance for its class with real-world firewall throughput of 6.2 Gbps and real-world IPS throughput of 1.28 Gbps.

KEY FEATURES

- 811 SecurityPower™
- 6.2 Gbps production firewall throughput
- 1.28 Gbps production IPS throughput
- High port density with up to 16 ports
- Optional power supplies and HDD
- 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	■	■	■	■
Identity Awareness	■	■	■	■
Mobile Access (5 users)	■	■	■	*
Advanced Networking & Clustering	■	■	■	■
IPS	■	■	■	*
Application Control	■	■	■	■
DLP	*	■	*	*
URL Filtering	*	*	■	■
Antivirus	*	*	■	■
Anti-spam	*	*	■	*
Anti-Bot	*	*	■	*

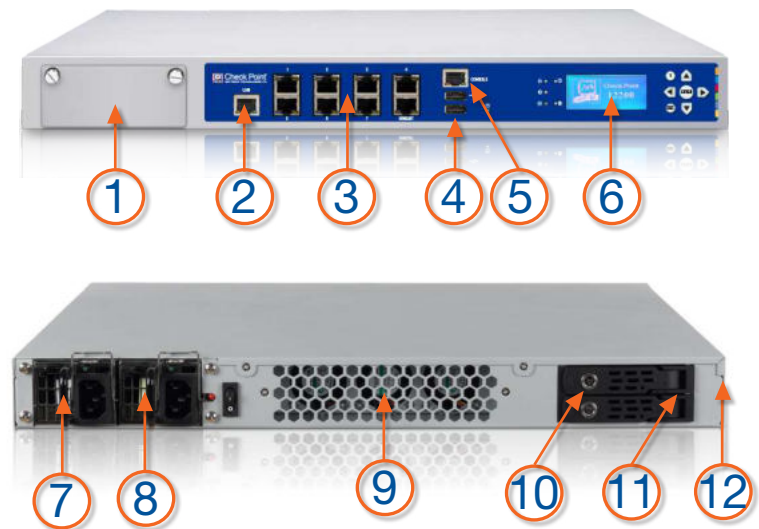
* Optional



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- ① One network card expansion slot
- ② Lights Out Management card
- ③ 8 x 10/100/1000Base-T
- 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 4 GB RAM upgrade (optional)
- ⑩ 500 GB hard drive
- ⑪ Second hot-swappable 500 GB RAID-1 hard drive (optional)
- ⑫ 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



BUSINESS CONTINUITY, RELIABILITY AND EXTENSIBILITY

The Check Point 12200 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's networks.

ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 12200 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.
- **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

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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 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.

TECHNICAL SPECIFICATIONS

Base Configuration
8 x 10/100/1000Base-T RJ45 ports
One network card expansion slot
4 GB memory
1 x 500GB HDD
One AC power supply
LOM card
Slide rails (22" to 32")
Network Expansion 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 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
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 + 4 x 10GBase-F SFP+ ports
2 x 500 GB HDD RAID-1
12 GB memory
Two redundant hot-swappable power supplies

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.

Production Performance ¹
811 SecurityPower
6.2 Gbps firewall throughput
1.28 Gbps firewall and IPS throughput
RFC 3511, 2544, 2647, 1242 Performance Tests (LAB)
15 Gbps of firewall throughput, 1518 byte UDP
2.5 Gbps of VPN throughput, AES-128
45,000 max IPsec VPN tunnels
2.5 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend
1.2/5 ² million concurrent connections, 64 HTTP response
90,000 connections per second, 64 byte HTTP response
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



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<p>Virtual Systems</p> <p>Max VSs: 20 (w/4GB), 50 (w/12GB)</p>	<p>Operating Environmental Conditions</p> <p>Temperature: 32° to 104°F / 0° to 40°C</p> <p>Humidity: 20% - 90% (non-condensing)</p>
<p>Dimensions</p> <p>Enclosure: 1RU</p> <p>Standard: 17.25 x 16.14 x 1.73 in.</p> <p>Metric: 438 x 410 x 44 mm</p> <p>Weight: 7.6 kg (16.76 lbs.)</p>	<p>Storage Conditions</p> <p>Temperature: -4° to 158°F / -20° to 70°C</p> <p>Humidity: 5% to 95% @60°C</p>
<p>Power Requirements</p> <p>AC Input Voltage: 110-240V</p> <p>Frequency: 47-63Hz</p> <p>Single Power Supply Rating: 275 W</p> <p>Power Consumption Maximum: 121 W</p> <p>Maximum Thermal Output: 412.9 BTU</p>	<p>Certifications</p> <p>Safety: CB, UL/cUL, CSA, TUV, NOM, CCC, IRAM, PCT/GoST</p> <p>Emissions: FCC, CE, VCCI, C-Tick, CCC, ANATEL, KCC</p> <p>Environmental: RoHS</p>

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 PACKAGES SPECIFICATIONS

Base Systems ¹	SKU
12200 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-SG12200-NGFW
Secure Web Gateway 12200 Appliance (with FW, VPN, ADNC, IA, APCL, AV and URLF Blades); bundled with local management and SmartEvent for up to 2 gateways. Includes one CPAC-RAM4GB 4 GB memory upgrade.	CPAP-SWG12200
12200 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-SG12200-NGDP
12200 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-SG12200-NGTP
Software Blades Packages ¹	SKU
12200 Next Generation Firewall Appliance Software Blade package for 1 year (IPS and APCL Blades)	CPSB-NGFW-12200-1Y
Secure Web Gateway 12200 Appliance Software Blade package for 1 year (APCL, AV and URLF Blades)	CPSB-SWG-12200-1Y
12200 Next Generation Data Protection Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades)	CPSB-NGDP-12200-1Y
12200 Next Generation Threat Prevention Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades)	CPSB-NGTP-12200-1Y
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 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/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

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 12200 appliances	CPAC-RAM4GB
Additional/replacement AC Power Supply for 12200 appliance	CPAC-PSU-12200
Additional/replacement 500G Hard Disk Drive for 12200 appliance	CPAC-HDD-500G-12200
Replacement parts kit (including 1 Hard Disk Drive, and one Power Supply) for 12200 appliance	CPAC-SPARES-12200
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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