



Check Point 12600 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. 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

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.

KEY 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

KEY BENEFITS

- Data-center 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 | ■ | ■ | ■ | ■ |
| Mobile Access (5 users) | ■ | ■ | ■ | * |
| Advanced Networking & Clustering | ■ | ■ | ■ | ■ |
| Identity Awareness | ■ | ■ | ■ | ■ |
| IPS | ■ | ■ | ■ | * |
| Application Control | ■ | ■ | ■ | ■ |
| Data Loss Prevention | * | ■ | * | * |
| URL Filtering | * | * | ■ | ■ |
| Antivirus | * | * | ■ | ■ |
| Anti-spam | * | * | ■ | * |
| Anti-Bot | * | * | ■ | * |

* Optional



12600

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



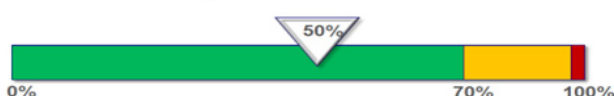
The 12600 includes Lights-Out-Management (LOM) and hot-swappable redundant disk drives and power supplies. The 12600 Appliance is a two rack unit (2RU) security appliance, with 2050 SecurityPower Units, that offers real-world firewall throughput of 14 Gbps and real-world IPS throughput of 3.58 Gbps.

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



ALL-INCLUSIVE SECURITY SOLUTIONS

The Check Point 12600 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 which



Datasheet: Check Point 12600 Appliance

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 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.

A RELIABLE SERVICEABLE PLATFORM

The Check Point 12600 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 the customer's networks.

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 |
|--|
| 2 on board 1GbE copper interface |
| 4x1GbE copper interfaces card (for 1 of the 3 expansion slots) |
| 8x1GbE copper interfaces card (for 1 of the 3 expansion slots) |
| 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 |

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 |
|---|
| 2050 SecurityPower |
| 14 Gbps firewall throughput |
| 3.58 Gbps firewall and IPS throughput |
| RFC 3511, 2544, 2647, 1242 Performance Tests (LAB) |
| 30 Gbps of firewall throughput, 1518 byte UDP |
| 7 Gbps of VPN throughput, AES-128 |
| 55,000 max IPsec VPN tunnels |
| 6 Gbps of IPS throughput, Recommended IPS profile, IMIX traffic blend |
| 2.5/5 ² million concurrent connections |
| 130,000 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 |



Datasheet: Check Point 12600 Appliance

| | |
|--|--|
| Virtual Systems Max VSs: 75 (w/6GB), 150 (w/12GB) | Operating Environmental Conditions Temperature: 32° to 104°F / 0° to 40°C Humidity: 20%-90% (non-condensing) |
| 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.) | Storage Conditions Temperature: -4° to 158°F / -20° to 70°C Humidity: 5% to 95% @60°C |
| 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 | 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 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 PACKAGE SPECIFICATIONS

| Base Packages ¹ | SKU |
|---|-----------------------|
| 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 for up to 2 gateways and SmartEvent. Includes one CPAC-RAM6GB-12600 6 GB memory upgrade. | 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 |
| High Performance Packages | SKU |
| 12600 Next Generation Firewall Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG12600-NGFW-HPP |
| 12600 Secure Web Gateway Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SWG12600-HPP |
| 12600 Next Generation Data Protection Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG12600-NGDP-HPP |
| 12600 Next Generation Threat Prevention Appliance High Performance Package with 4x10Gb SFP+ interface card, transceivers and extended memory for high connection capacity. | CPAP-SG12600-NGTP-HPP |
| Software Blades Packages ¹ | SKU |
| 12600 Next Generation Firewall 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 Next Generation Data Protection Appliance Software Blade package for 1 year (IPS, APCL, and DLP Blades) | CPSB-NGDP-12600-1Y |
| 12600 Next Generation Threat Prevention Appliance Software Blade package for 1 year (IPS, APCL, URLF, AV, ABOT and ASPM Blades) | CPSB-NGTP-12600-1Y |
| Additional Software Blades ¹ | SKU |
| Check Point Mobile Access Software Blade for unlimited concurrent connections | CPSB-MOB-U |
| Data Loss Prevention Software Blade for 1 year (for 1,500 users and above, up to 250,000 mails per hour and maximum throughput of 2.5 Gbps) | CPSB-DLP-U-1Y |
| Check Point IPS Software Blade for 1 year | CPSB-IPS-XL-1Y |
| Check Point Application Control Software Blade for 1 year | CPSB-APCL-XL-1Y |
| Check Point URL Filtering Software Blade for 1 year | CPSB-URLF-XL-1Y |
| Check Point Antivirus Software Blade for 1 year | CPSB-AV-XL-1Y |
| Check Point Anti-Spam & Email Security Software 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 |

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



VIRTUAL SYSTEMS PACKAGES

| Description | SKU |
|---------------------------------------|----------------|
| 50 Virtual Systems package | CPSB-VS-50 |
| 50 Virtual Systems package for HA/VSL | CPSB-VS-50-VSL |
| 25 Virtual Systems package | CPSB-VS-25 |
| 25 Virtual Systems package for HA/VSL | CPSB-VS-25-VSL |
| 10 Virtual Systems package | CPSB-VS-10 |
| 10 Virtual Systems package for HA/VSL | CPSB-VS-10-VSL |

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 10/100/1000Base-T RJ45 interface card | CPAC-4-1C |
| 8 Port 10/100/1000Base-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 |
| 6 GB RAM Memory upgrade for 12600 appliance | CPAC-RAM6GB-12600 |
| Replacement parts kit (including 1 Hard Disk Drive, and one Power Supply) 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-RAILS |
| Extended Slide Rails for 4000 and 12000 Appliances (26"-36") | CPAC-RAILS-EXT |

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