

CHECK POINT 5800 NEXT GENERATION SECURITY GATEWAY FOR THE MID-SIZE ENTERPRISE



CHECK POINT 5800 NEXT GENERATION SECURITY GATEWAY

Mid-size enterprise security

Product Benefits

- High performance protection against the most advanced cyber attacks
- Unique “first time prevention” for the most sophisticated zero day attack
- Optimized for inspecting SSL encrypted traffic
- Future-proofed technology safeguards against tomorrow’s risks
- Centralized control and LOM improves serviceability
- Modular, expandable chassis with flexible I/O options

Product Features

- Simple deployment and management
- Virtual Systems consolidates security onto one device
- Two network expansion slots to add port density, fiber, 10 GbE, 40 GbE and fail-open IO card options
- Redundant AC or DC power supplies, fans and appliance clustering technologies eliminate single point of failure

OVERVIEW

The Check Point 5800 Next Generation Security Gateway combines the most comprehensive security protections to safeguard your mid-size enterprise. The 5800 is a 1U Next Generation Security Gateway with two I/O expansion slots for higher port capacity, redundant fans, redundant AC or DC power supply options, a 500GB (HDD) or 240GB (SSD) disk, and Lights-Out Management (LOM) for remote management. This powerful Next Generation Security Gateway is optimized to deliver real-world threat prevention to secure your critical assets and environments.

COMPREHENSIVE THREAT PREVENTION

The rapid growth of malware, growing attacker sophistication and the rise of new unknown zero-day threats require a different approach to keep enterprise networks and data secure. Check Point delivers fully integrated, comprehensive Threat Prevention with award-winning SandBlast™ Threat Emulation and Threat Extraction for complete protection against the most sophisticated threats and zero-day vulnerabilities.

Unlike traditional solutions that are subject to evasion techniques, introduce unacceptable delays, or let potential threats through while evaluating files, Check Point SandBlast stops more malware from entering your network. With our solution your employees can work safely no matter where they are and doesn’t compromise their productivity.

PERFORMANCE HIGHLIGHTS

Firewall	IPS	NGFW ¹	Threat Prevention ²
35 Gbps	10 Gbps	8.1 Gbps	2.1 Gbps

Performance measured under ideal testing conditions. Additional performance detailed on page 5.

¹ Includes Firewall, Application Control, and IPS Software Blades.

² Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection Software Blades.

ALL-INCLUSIVE SECURITY SOLUTIONS

Check Point 5800 Next Generation Security Gateways offer a complete and consolidated security solution available in two complete packages:

- NGTP: prevent sophisticated cyber-threats with Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and Email Security.
- NGTX: NGTP with SandBlast Zero-Day Protection, which includes Threat Emulation and Threat Extraction.

PREVENT KNOWN AND ZERO-DAY THREATS

The 5800 Next Generation Security Gateway protects organizations from both known and unknown threats with Antivirus, Anti-Bot, SandBlast Threat Emulation (sandboxing), and SandBlast Threat Extraction technologies.

As part of the Check Point SandBlast Zero-Day Protection solution, the cloud-based Threat Emulation engine detects malware at the exploit phase, even before hackers can apply evasion techniques attempting to bypass the sandbox. Files are quickly quarantined and inspected, running in a virtual sandbox to discover malicious behavior before it enters your network. This innovative solution combines cloud-based CPU-level inspection and OS-level sandboxing to prevent infection from the most dangerous exploits, and zero-day and targeted attacks.

Furthermore, SandBlast Threat Extraction removes exploitable content, including active content and embedded objects, reconstructs files to eliminate potential threats, and promptly delivers sanitized content to users to maintain business flow.

	NGTP	NGTX (SandBlast)
	Prevent known threats	Prevent known and zero-day attacks
Firewall	✓	✓
VPN (IPsec)	✓	✓
IPS	✓	✓
Application Control	✓	✓
URL Filtering	✓	✓
Anti-Bot	✓	✓
Anti-Virus	✓	✓
Anti-Spam	✓	✓
SandBlast Threat Emulation	✗	✓
SandBlast Threat Extraction	✗	✓

INSPECT ENCRYPTED CONNECTIONS

There is a shift towards more use of HTTPS, SSL and TLS encryption to increase Internet security. At the same time files delivered into the organization over SSL and TLS represent a stealthy attack vector that bypasses traditional security implementations. Check Point Threat Prevention looks inside encrypted SSL and TLS tunnels to detect threats, ensuring users remain in compliance with company policies while surfing the Internet and using corporate data.

INCLUSIVE HIGH PERFORMANCE PACKAGE

Customers with high connection capacity requirements can purchase the affordable High Performance Package (HPP). This includes the base system plus one 2x 10Gb SFP+ interface card, transceivers, redundant AC or DC power supplies and 16 GB of memory for high connection capacity.

	Base	HPP	Max
1 GbE ports (Copper)	10	10	26
1 GbE ports (Fiber)	0	0	8
10 GbE ports (Fiber)	0	2	8
Transceivers (SR)	0	2	8
40 GbE ports (Fiber)	0	0	4
RAM	8GB	16GB	32GB
AC or DC Power Units	1	2	2
Lights Out Management	Included	Included	Included

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.

40 GbE CONNECTIVITY

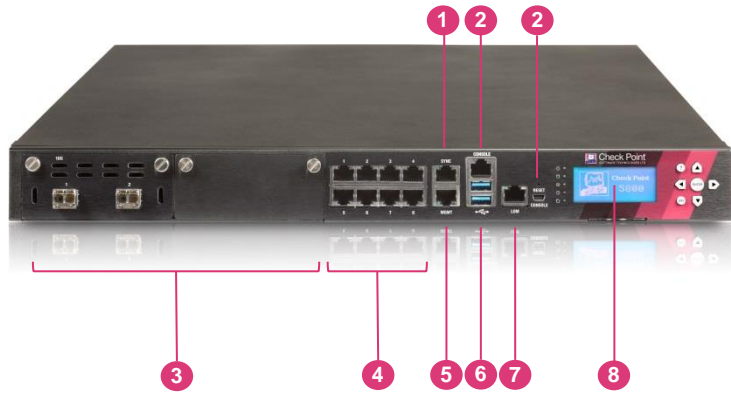
High speed connections are essential in modern enterprise and data center environments, especially those with high-density virtualized servers. If you're ready to move from 10 to 40 GbE, so is the 5800 Next Generation Security Gateway. The Check Point 5800 lets you connect your 10 GbE server uplinks to your 40 GbE core network with up to 4x 40 GbE ports.

TAP THE POWER OF VIRTUALIZATION

Check Point Virtual Systems enable organizations to consolidate infrastructure by creating multiple virtualized security gateways on a single hardware device, offering significant cost savings with seamless security and infrastructure consolidation.

5800 SECURITY GATEWAY

- 1 Sync 10/100/1000Base-T RJ45 port
- 2 RJ45/micro USB console port
- 3 Two network card expansion slots
- 4 8x 10/100/1000Base-T RJ45 ports
- 5 Management 10/100/1000Base-T RJ45 port
- 6 2x USB 3.0 ports for ISO installation
- 7 Lights-Out Management port
- 8 Graphic LCD display



ORDERING INFORMATION

BASE CONFIGURATION ¹

5800 Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 8GB RAM, 1 HDD, 1 AC Power Unit, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year.	CPAP-SG5800-NGTP
5800 SandBlast Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 8GB RAM, 1 HDD, 1 AC Power Unit, Lights Out Management (LOM), SandBlast (NGTX) Security Subscription Package for 1 Year	CPAP-SG5800-NGTX

HIGH PERFORMANCE PACKAGES ¹

5800 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 2x10Gb SFP+ ports, 2 SR transceivers, 16 GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year	CPAP-SG5800-NGTP-HPP
5800 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 2x10Gb SFP+ ports, 2 SR transceivers, 16 GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) Security Subscription Package for 1 Year	CPAP-SG5800-NGTX-HPP

VIRTUAL SYSTEM PACKAGES ¹

5800 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 2x10GbE SFP+ ports + 2 SR transceivers, 16 GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year and 10 Virtual Systems	CPAP-SG5800-NGTP-HPP-VS10
Two 5800 Next Generation Security Gateways with High Performance Package, includes 10x1GbE copper ports, 2x10GbE SFP+ ports + 2 SR transceivers, 16GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year and 10 Virtual Systems	CPAP-SG5800-NGTP-HPP-VS10-2
5800 Next Generation Security Gateways with High Performance Package, includes 10x1GbE copper ports, 2x10GbE SFP+ ports + 2 SR transceivers, 16GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) Security Subscription Package for 1 Year and 10 Virtual Systems	CPAP-SG5800-NGTX-HPP-VS10
Two 5800 Next Generation Security Gateways with High Performance Package, includes 10x1GbE copper ports, 2x10GbE SFP+ ports + 2 SR transceivers, 16GB RAM, 1 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) Security Subscription Package for 1 Year and 10 Virtual Systems	CPAP-SG5800-NGTX-HPP-VS10-2

¹ SKUs for 2 and 3 years, for High Availability and Appliances with SSD and DC power options are also available, see the online Product Catalog

5800 SECURITY GATEWAY

- 1** Redundant AC or DC power supplies
- 2** Cooling fans



ACCESSORIES

INTERFACE CARDS AND TRANSCEIVERS

8 Port 10/100/1000 Base-T RJ45 interface card	CPAC-8-1C-B
4 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceivers	CPAC-4-1F-B
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX-B
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX-B
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T-B
4 Port 10GBase-F SFP+ interface card	CPAC-4-10F-B
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR-B
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR-B
2 Port 40GBase-F QSFP interface card	CPAC-2-40F-B
QSFP transceiver module for 40G fiber ports - short range (40GBase-SR)	CPAC-TR-40SR-QSFP-300m
QSFP transceiver module for 40G fiber ports - long range (40GBase-LR)	CPAC-TR-40LR-QSFP-10K
Bi-directional QSFP transceiver for 40G fiber Ports - short range (40GBase-SR-BD)	CPAC-TR-40SR-QSFP-BiDi
4 Port 1GE copper Bypass (Fail-Open) network interface card (10/100/1000 Base-T)	CPAC-4-1C-BP-B
2 Port 10GE short-range Fiber Bypass (Fail-Open) network interface card (10GBase-SR)	CPAC-2-10-FSR-B-BP

SPARES AND MISCELLANEOUS

Memory upgrade kit from 8GB to 16GB for 5800 appliance	CPAC-RAM8GB-5000
Memory upgrade kit from 8GB to 32GB for 5800 appliance	CPAC-RAM24GB-5000
Memory upgrade kit from 16GB to 32GB for 5800 appliance	CPAC-RAM16GB-5000
Additional/Replacement AC Power Supply for 5600 and 5800 appliances	CPAC-PSU-5600/5800
Additional/Replacement DC power supply unit for 5600 and 5800	CPAC-PSU-DC-5600/5800
Slide rails for 5000 Appliances (22" - 32")	CPAC-RAIL-5000
Extended slide rails for 5000 Appliances (26" - 36")	CPAC-RAIL-EXT-5000

Performance

Ideal Testing Conditions

- 35 Gbps of UDP 1518 byte packet firewall throughput
- 10 Gbps IPS
- 8.1 Gbps of NGFW¹
- 2.1 Gbps of Threat Prevention²
- 10 Gbps of AES-128 VPN throughput
- 185,000 connections per second, 64 byte response
- 3.2/6.4/12.8 million concurrent connections, 64 byte response³

Real-World Production Conditions

- 1,750 SecurityPower Units
- 22 Gbps of firewall throughput
- 3.05 Gbps IPS
- 2 Gbps of NGFW¹
- 1 Gbps of Threat Prevention²

Virtual Systems

- Maximum VS (base/HPP/max memory): 10/20/20

Your performance may vary depending on different factors. Visit www.checkpoint.com/partnerlocator to find an appliance that matches your unique requirements.

1. Includes Firewall, Application Control and IPS Software Blades. 2. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection Software Blades. 3. Performance measured with default/HPP/maximum memory.

Expansion Options

Base Configuration

- 10 on-board 10/100/1000Base-T RJ-45 ports
- 1x CPUs, 4x physical cores, 8x virtual cores (total)
- 8 GB memory (16 and 32 GB options)
- 1x 500GB (HDD) or 1x 240GB SSD drive
- 1 AC or DC power supply (2 redundant PSU option)
- Lights-Out-Management (LOM)
- Slide rails (22" – 32")

Network Expansion Slot Options (2 slots available)

- 8x 10/100/1000Base-T RJ45 port card, up to 26 ports
- 4x 1000Base-F SFP port card, up to 8 ports
- 4x 10GBase-F SFP+ port card, up to 8 ports
- 2x 40GBase-F QSFP port card, up to 4 ports

Fail-Open/Bypass Network Options

- 4x 10/100/1000Base-T RJ45 port card
- 2x 10GBase-F SFP+ port card

Network

Network Connectivity

- Total physical and virtual (VLAN) interfaces per appliance: 1024/4096 (single gateway/with virtual systems)
- 802.3ad passive and active link aggregation
- Layer 2 (transparent) and Layer 3 (routing) mode

High Availability

- Active/Active and Active/Passive - L3 mode
- Session failover for routing change, device and link failure
- ClusterXL or VRRP

IPv6

- NAT66, NAT64
- CoreXL, SecureXL, HA with VRRPv3

Unicast and Multicast Routing (see SK98226)

- OSPFv2 and v3, BGP, RIP
- Static routes, Multicast routes
- Policy-based routing
- PIM-SM, PIM-SSM, PIM-DM, IGMP v2, and v3

Physical

Power Requirements

- Single Power Supply rating: 275W
- AC power input: 90-264V, (47-63Hz)
- Power consumption maximum: 110W
- Maximum thermal output: 375.3 BTU/hr.

Dimensions

- Enclosure: 1RU
- Dimensions (W x D x H): 17.4x20x1.73 in. (438x50 x44mm)
- Weight: 18.45 lbs. (8.37 kg)

Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95%
- Storage: -40° to 70°C, humidity 5% to 95% at 60°C

Certifications

- Safety: UL, CB, CE, TUV GS
- Emissions: FCC, CE, VCCI, RCM/C-Tick
- Environmental: RoHS, REACH¹, ISO14001¹

¹ factory certificate