

# CHECK POINT 5100 NEXT GENERATION SECURITY GATEWAY FOR THE SMALL ENTERPRISE AND BRANCH OFFICE



## CHECK POINT 5100 NEXT GENERATION SECURITY GATEWAY

Small enterprise and branch office 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
- Secure remote access to corporate resources from a wide variety of devices
- One network expansion slot to add port density, fiber and fail-open IO card options
- Redundant clustering technologies eliminate a single point of failure

## OVERVIEW

The Check Point 5100 Next Generation Security Gateway combines the most comprehensive security protections to safeguard your small enterprise and branch office deployments. The 5100 delivers high performance and port modularity for higher port capacity. This powerful Next Generation Security Gateway is optimized to deliver threat prevention for your enterprise or branch offices against present and future threats to secure your critical assets and environments.

## COMPREHENSIVE THREAT PREVENTION

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. Our solution enables your employees to work safely - no matter where they are and without compromising their productivity.

## PERFORMANCE HIGHLIGHTS

Firewall	IPS	NGFW <sup>1</sup>	Threat Prevention <sup>2</sup>
14.5 Gbps	2.45 Gbps	2.2 Gbps	1.34 Gbps

Performance measured under ideal testing conditions. Additional performance details on page 4.

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 using R80.10.

## ALL-INCLUSIVE SECURITY SOLUTIONS

Check Point 5100 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 5100 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 4x 1Gb SFP interface card, transceivers, Lights-Out-Management and 16 GB of memory for high connection capacity.

	Base	HPP	Max
1 GbE ports (Copper)	6	6	14
1 GbE ports (Fiber)	0	4	4
Transceivers (SR)	0	4	4
RAM	8GB	16GB	16GB
AC or DC Power Units	1	1	1
Lights Out Management	Optional	Included	Included

## REMOTE MANAGEMENT AND MONITORING

An optional Lights-Out-Management (LOM) card provides out-of-band remote management to remotely diagnose, start, restart and manage the Next Generation Security Gateway from a remote location. Administrators can also use the LOM web interface to remotely install an OS image from an ISO file.

## SECURE REMOTE ACCESS

Each Check Point Next Generation Security Gateway is configured with mobile access connectivity for up to 5 users, using the Mobile Access Blade. This license provides secure remote access to corporate resources from a wide variety of devices including smartphones, tablets, PCs, Mac and Linux.

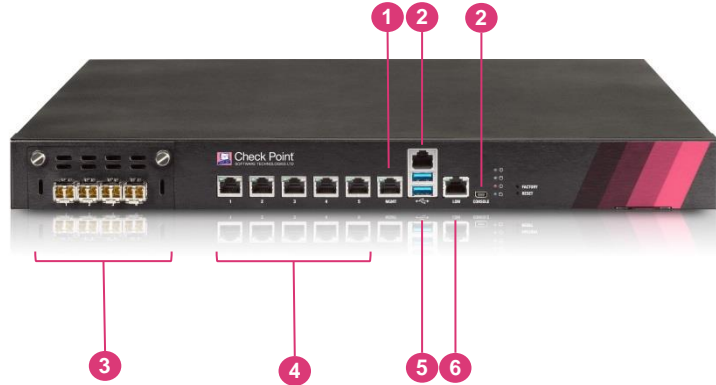
## INTEGRATED SECURITY MANAGEMENT

Every Check Point appliance can either be managed locally with the available integrated security management<sup>1</sup> or via central unified management. Using local management, the appliance can manage itself and one adjacent appliance for high availability deployments.

<sup>1</sup> not available when purchased with the SSD option

### 5100 SECURITY GATEWAY

- 1 Management 10/100/1000Base-T RJ45 port
- 2 RJ45/micro USB console port
- 3 One network card expansion slot
- 4 5x 10/100/1000Base-T RJ45 ports
- 5 2x USB ports for ISO installation
- 6 Lights-Out Management port



## ORDERING INFORMATION

BASE CONFIGURATION <sup>1</sup>	
5100 Next Generation Security Gateway base configuration, includes 6x1GbE copper ports, 8GB RAM, 1 HDD, 1 AC power unit, Next Generation Threat Prevention (NGTP) security subscription package for 1 year.	CPAP-SG5100-NGTP
5100 SandBlast Next Generation Security Gateway base configuration, includes 6x1GbE copper ports, 8GB RAM, 1 HDD, 1 AC power unit, SandBlast (NGTX) security subscription package for 1 year	CPAP-SG5100-NGTX

HIGH PERFORMANCE PACKAGES <sup>1</sup>	
5100 Next Generation Security Gateway with High Performance Package, includes 6x1GbE copper ports, 4x1Gb SFP ports, 4 SR transceivers, 16 GB RAM, 1 HDD, 1 AC power unit, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) security subscription package for 1 year	CPAP-SG5100-NGTP-HPP
5100 Next Generation Security Gateway with High Performance Package, includes 6x1GbE copper ports, 4x1Gb SFP ports, 4 SR transceivers, 16 GB RAM, 1 HDD, 1 AC power unit, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) security subscription package for 1 year	CPAP-SG5100-NGTX-HPP

<sup>1</sup> SKUs for 2 and 3 years, for High Availability and Appliances with an SSD or DC power option are also available, see the online Product Catalog

## 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 1GE copper Bypass (Fail-Open) network interface card (10/100/1000 Base-T)	CPAC-4-1C-BP-B

SPARES AND MISCELLANEOUS	
Memory upgrade kit from 8GB to 16GB for 5100 appliance	CPAC-RAM8GB-5000
Lights Out Management module	CPAC-LOM-B
Slide rails for 5000 Appliances (22" - 32")	CPAC-RAIL-5000
Extended slide rails for 5000 Appliances (24" - 36")	CPAC-RAIL-EXT-5000

## Performance

### Ideal Testing Conditions

- 14.5 Gbps of UDP 1518 byte packet firewall throughput
- 2.45 Gbps IPS
- 2.2 Gbps of NGFW<sup>1</sup>
- 1.34 Gbps of Threat Prevention<sup>2</sup>
- 1.6 Gbps of AES-128 VPN throughput
- 110,000 connections per second, 64 byte response
- 3.2/6.4M concurrent connections, 64 byte response<sup>3</sup>

### Real-World Production Conditions

- 340 SecurityPower Units
- 4.2 Gbps of firewall throughput
- 730 Mbps IPS
- 450 Mbps of NGFW<sup>1</sup>
- 250 Mbps of Threat Prevention<sup>2</sup>

Your performance may vary depending on different factors. Visit [www.checkpoint.com/partnerlocator](http://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 using R80.10. 3. Performance measured with default/maximum memory.

## Expansion Options

### Base Configuration

- 6 on-board 10/100/1000Base-T RJ-45 ports
- 1x CPUs, 2x physical cores, 2x virtual cores (total)
- 8 GB memory (16 GB option)
- 1x 500GB (HDD) or 1x 240GB (SSD) drive
- 1 power supply (AC or DC)
- Fixed rails (slide rail option)
- (Lights-Out-Management (LOM) option)

### Network Expansion Slot Options (1 slot available)

- 8x 10/100/1000Base-T RJ45 port card, up to 14 ports
- 4x 1000Base-F SFP port card, up to 4 ports

### Fail-Open/Bypass Network Options

- 4x 10/100/1000Base-T RJ45 port card

## Network

### Network Connectivity

- Total physical and virtual (VLAN) interfaces per gateway: 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

## Routing

### 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: 250W
- AC power input: 110-240V, (47-63Hz)
- Power consumption maximum: 62.9W
- Maximum thermal output: 214.6 BTU/hr.

### Dimensions

- Enclosure: 1RU
- Dimensions (W x D x H): 17.2x16x1.73 in.(438x406.5x44mm)
- Weight: 13.7 lbs. (6.22 kg)

### Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95%
- Storage: -20° 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, WEEE, REACH<sup>1</sup>, ISO14001<sup>1</sup>
- <sup>1</sup> factory certificate