

# 5100 SECURITY GATEWAY



Check Point's 5100 Next Generation Firewall offers a fully integrated, unified solution tuned to deliver maximum security against 5th generation threats without compromising performance. 5100 Security Gateway provides the most advanced threat prevention security for demanding enterprise networks.



## The Most Advanced Threat Prevention

Equipped with our SandBlast technology, protecting against unknown threats and zero-day attacks



## Full Security, Uncompromising Performance

Highly optimized with up to 1.34 Gbps of threat prevention throughput



## Designed to Secure Encrypted Traffic

Powerful platforms for inspection of SSL traffic

## PERFORMANCE HIGHLIGHTS

Gen II Security: Firewall	Gen III Security: NGFW <sup>1</sup>	Gen V Security: Threat Prevention + SandBlast <sup>2</sup>
14.5 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. 2: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection.

# 5100

## Enterprise-grade security, performance and reliability

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 is a 1U Next Generation Security Gateway with one I/O expansion slot for higher port capacity, an AC or DC power supply, a 1TB (HDD) or 240GB (SSD) disk, and optional 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.

## Key Features & Benefits

Advanced Threat Prevention .....	1 <sup>st</sup> time prevention of known and zero-day threats
Uncompromising Performance ....	Achieve up to 1.34 Gbps of threat prevention throughput
Secure Encrypted Traffic .....	Consolidate SSL inspection into one integrated security platform



## THE CYBER SECURITY ARCHITECTURE OF THE FUTURE

### Enterprise Security Gateways

#### ONE SECURITY PLATFORM

Leveraging unified threat intelligence and open interfaces

#### REAL-TIME THREAT PREVENTION

Blocking the most sophisticated attacks before they infiltrate the network

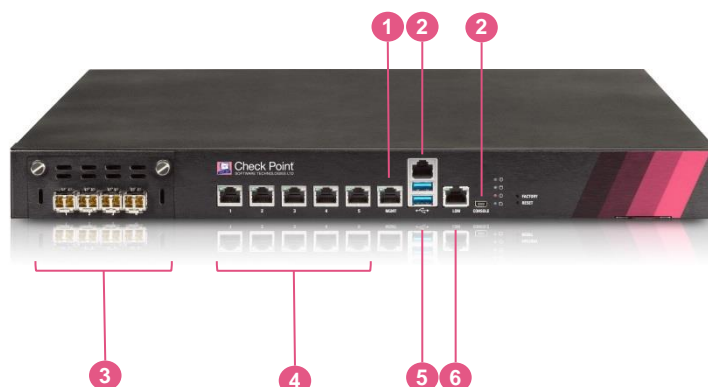
#### CONSOLIDATED MANAGEMENT

Single management, modular policy management and integrated threat visibility

## SPOTLIGHT

### 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



### Prevent Known and Zero-day Threats

Zero-day protection offering network security with evasion-resistant malware detection and complete protection from the most advanced attacks, ensuring quick delivery of safe content to users.



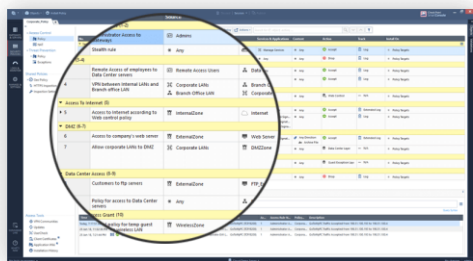
### All-inclusive Security Solutions

Check Point 5100 Next Generation Security Gateway offers a complete and consolidated security solution available in two complete packages:

- ❖ Threat Prevention
- ❖ Threat Prevention + SandBlast

### Integrated Security Management

5100 Security Appliances with the HDD option can manage itself and one adjacent appliance in a high availability deployment. Or manage the gateways via central unified management.



### 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. Also use the LOM web interface to remotely install an OS image from an ISO file.

## ENTERPRISE-GRADE PLATFORM

		1 GbE (copper)	1 GbE (fiber)	Memory	LOM
5100	Base	6	0	8 GB	○
	HPP	6	4	16 GB	●
	Max	14	4	16 GB	●

○ this is optional

## WELCOME TO THE FUTURE OF CYBER SECURITY

## 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<sup>3</sup>
- 3.2/6.4M concurrent connections, 64 byte response<sup>3</sup>

### Enterprise Testing Conditions

- 6.45 Gbps of firewall throughput
- 2.45 Gbps IPS
- 2.1 Gbps of NGFW<sup>1</sup>
- 700 Mbps of Threat Prevention<sup>2</sup>

1: Includes Firewall, Application Control and IPS with R80.20. 2: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection with R80.20.  
 3: Performance measured with default/HPP/maximum memory with R80.10.

## Additional Features

### Highlights

- 1x CPUs, 2x physical cores (total)
- 1x 1TB HDD or 240GB SSD storage
- 8 and 16 GB memory options
- 1x AC or DC power supply
- Lights-Out-Management card is optional

### Network Expansion Slot Options (1 of 1 slots open)

- 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

## Content Security

### First Time Prevention Capabilities

- CPU-level, OS-level and static file analysis
- File disarm and reconstruction via Threat Extraction
- Average emulation time for unknown files that require full sandbox evaluation is under 100 seconds
- Maximal file size for Emulation is 100 MB
- Emulation OS Support: Windows XP, 7, 8.1, 10

### Applications

- Use 8,000+ pre-defined or customize your own applications
- Accept, prevent, schedule, and apply traffic-shaping

### Data Loss Prevention

- Classify 700+ pre-defined data types
- End user and data owner incident handling

## Content Security (continued)

### Dynamic User-based Policy

- Integrates with Microsoft AD, LDAP, RADIUS, Cisco pxGrid, Terminal Servers and with 3<sup>rd</sup> parties via a Web API
- Enforce consistent policy for local and remote users on Windows, macOS, Linux, Android and Apple iOS platforms

## 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, NAT46
- 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: 250W
- AC power input: 90 to 264V (47-63Hz)
- Power consumption max: 62.9W
- Maximum thermal output: 214.6 BTU/hr.

### Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 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

WELCOME TO THE FUTURE OF CYBER SECURITY

## ORDERING 5100 SECURITY GATEWAYS

BASE CONFIGURATION <sup>1</sup>	SKU
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
HPP CONFIGURATION <sup>1</sup>	SKU
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

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

<sup>1</sup> 2 and 3 year, Virtual Systems packages and DC power options also available in the online product catalog