


# 5900 SECURITY GATEWAY



 End Of Sale  
December 31st 2020

Check Point's 5900 Next Generation Firewall offers a fully integrated, unified solution tuned to deliver maximum security against 5th generation threats without compromising performance. 5900 Security Gateway provides the most advanced threat prevention security for demanding enterprise networks.



## The Most Advanced Threat Prevention

Protection from unknown threats and zero-day attacks



## Full Security Uncompromising Performance

Highly optimized with up to 6.1 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>
29.4 Gbps	7.25 Gbps	6.1 Gbps

Performance measured with enterprise 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.

WELCOME TO THE FUTURE OF CYBER SECURITY

# 5900

## Enterprise-grade security, performance and reliability

The Check Point 5900 Next Generation Security Gateway combines the most comprehensive security protections to safeguard your mid-size enterprise.

The 5900 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 2x 480GB SSD drive array option, 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.

## Key Features & Benefits

- Advanced Threat Prevention ..... 1<sup>st</sup> time prevention of known and zero-day threats
- Uncompromising Performance .... Achieve up to 6.1 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

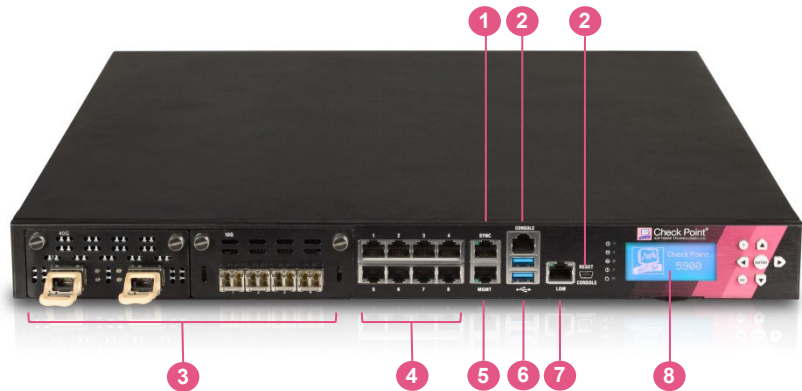
Single management, modular policy management and integrated threat visibility

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## SPOTLIGHT

### 5900 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



#### 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.



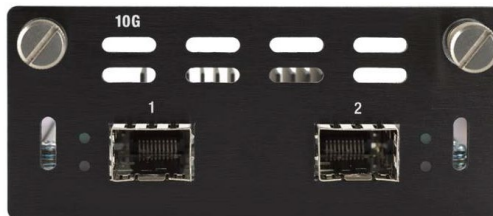
#### All-inclusive Security Solutions

Check Point 5900 Next Generation Security Gateway offers a complete and consolidated security solution available in two complete packages:

- ❖ Threat Prevention
- ❖ Threat Prevention + SandBlast

#### Inclusive High Performance Package

Purchase the affordable High Performance Package (HPP) and get a base system plus one 4x 10Gb SFP+ interface card, transceivers, redundant AC or DC power supplies, 2x 480GB SSD drives and 16 GB of memory for high connection capacity.



#### 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)	10 GbE	40 GbE	Memory	Redundant Storage	Redundant Power	LOM
5900	Base	10	0	0	0	8 GB	○	○	●
	HPP	10	0	4	0	16 GB	●	●	●
	Maximums	26	8	8	4	32 GB	●	●	●

○ this is optional

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## Performance

### Enterprise Testing Conditions

- 6.1 Gbps of Threat Prevention<sup>1</sup>
- 7.25 Gbps of NGFW<sup>2</sup>
- 7.6 Gbps IPS
- 29.4 Gbps of firewall throughput

### Ideal Testing Conditions

- 52 Gbps of UDP 1518 byte packet firewall throughput
- 10.2 Gbps of AES-128 VPN throughput
- 210,000 connections per second, 64 byte response<sup>3</sup>
- 3.2/6.4/12.8M concurrent connections, 64 byte response<sup>3</sup>

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

## Additional Features

### Highlights

- 1x CPUs, 8x physical cores, 16x virtual cores (total)
- 1x 480GB SSD storage (2x RAID1 option)
- 1 AC or DC power supply (2 redundant PSU option)
- 8, 16 and 32 GB memory options
- Lights-Out-Management card is Included
- Virtual Systems (base/HPP/max mem): 10/20/20

### Network Expansion Slot Options (2 of 2 slots open)

- 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 40G 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

## 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 L2, Active/Passive L2 and L3
- 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: 500W
- AC power input: 90 to 264V (47-63Hz)
- Power consumption max: 165W
- Maximum thermal output: 563 BTU/hr.

### Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.2x20x1.73 in. (438x508x44mm)
- Weight: 22.05 lbs. (10 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>. factory certificate

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## ORDERING 5900 SECURITY GATEWAYS

BASE CONFIGURATION <sup>1</sup>	SKU
5900 Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 8GB RAM, 1 SSD, 1 AC Power Unit, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year	CPAP-SG5900-NGTP-SSD
5900 SandBlast Next Generation Security Gateway Base Configuration, includes 10x1GbE copper ports, 8GB RAM, 1 SSD, 1 AC Power Unit, Lights Out Management (LOM), SandBlast (NGTX) Security Subscription Package for 1 Year	CPAP-SG5900-NGTX-SSD
HPP CONFIGURATION <sup>1</sup>	SKU
5900 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 4x10Gb SFP+ ports, 4 SR transceivers, 16 GB RAM, 2 SSD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year	CPAP-SG5900-NGTP-HPP-SSD
5900 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 4x10Gb SFP+ ports, 4 SR transceivers, 16 GB RAM, 2 SSD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) Security Subscription Package for 1 Year	CPAP-SG5900-NGTX-HPP-SSD

<sup>1</sup> 2 and 3 year and Virtual Systems packages also available in 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 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 40G 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-BiDi)	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-BP-B
MEMORY	SKU
Memory upgrade kit from 8GB to 16GB for 5900 appliance	CPAC-RAM8GB-5900
Memory upgrade kit from 8GB to 32GB for 5900 appliance	CPAC-RAM24GB-5900
Memory upgrade kit from 16GB to 32GB for 5900 appliance	CPAC-RAM16GB-5900
SPARES AND MISCELLANEOUS	SKU
SSD for 5900 Security Gateway	CPAC-SSD-480G-5900
Additional/Replacement AC Power Supply for 5600 and 5900 appliances	CPAC-PSU-5600/5900
Additional/Replacement DC power supply unit for 5600 and 5900	CPAC-PSU-DC-5600/5900
Slide rails for 5000 Appliances (22" - 32")	CPAC-RAILS-5000
Extended slide rails for 5000 Appliances (24" - 36")	CPAC-RAILS-EXT-5000

Note: RMA units are available with the 480GB SSD only