5900 SECURITY GATEWAY

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[1]	Gen V Security Threat Prevention + SandBlast[2]
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.

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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 …….	1st 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

CHECK POINT INFINITY

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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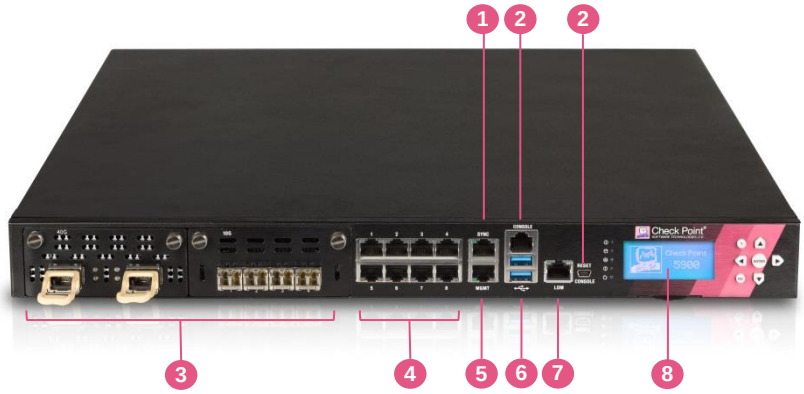
SPOTLIGHT

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



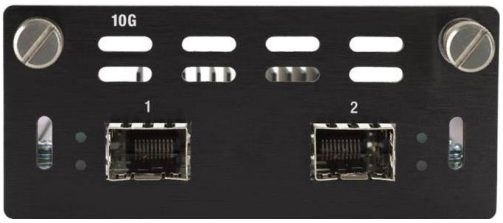
Prevent Known and Zero-day Threats
Zero-day protection offering network security with evasion-resistant malware detection and complete protection from the most advanced attacks, ensuring quick delivery of safe content to users.

Check Point SandBlast™ NETWORK

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[1]
- 7.25 Gbps of NGFW[2]
- 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[3]
- 3.2/6.4/12.8M concurrent connections, 64 byte response[3]

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 3rd 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[1], ISO14001[1]

[1]. factory certificate

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ORDERING 5900 SECURITY GATEWAYS

BASE CONFIGURATION [1]	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 [1]	**SKU**
5900 Next Generation Security Gateway with High Performance Package, includes10x1GbE 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, includes10x1GbE 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

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-B-BP
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

[1] 2 and 3 year and Virtual Systems packages also available in the online product catalog

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