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.

**PERFORMANCE HIGHLIGHTS**

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Throughput</td>
<td>52 Gbps</td>
<td>11.4 Gbps</td>
<td>6.75 Gbps</td>
</tr>
</tbody>
</table>

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.
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 2 x 500GB (HDD) or 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 6.75 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

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 500GB (HDD) or 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

<table>
<thead>
<tr>
<th></th>
<th>1 GbE (copper)</th>
<th>1 GbE (fiber)</th>
<th>10 GbE</th>
<th>40 GbE</th>
<th>Memory</th>
<th>Redundant Storage</th>
<th>Redundant Power</th>
<th>LOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8 GB</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>HPP</td>
<td>10</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>16 GB</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Max</td>
<td>26</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>32 GB</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
</tbody>
</table>

○ this is optional
Performance

Ideal Testing Conditions
- 52 Gbps of UDP 1518 byte packet firewall throughput
- 13.5 Gbps IPS
- 11.4 Gbps of NGFW
- 6.75 Gbps of Threat Prevention
- 10.2 Gbps of AES-128 VPN throughput
- 210,000 connections per second, 64 byte response
- 3.2/6.4/12.8M concurrent connections, 64 byte response

Enterprise Testing Conditions
- 29.4 Gbps of firewall throughput
- 7.6 Gbps IPS
- 7.25 Gbps of NGFW
- 3.95 Gbps of Threat Prevention with R80.20
- 7.25 Gbps of NGFW with R80.10

Additional Features

Highlights
- 1x CPUs, 8x physical cores, 16x virtual cores (total)
- 1x 500GB HDD or 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 7900+ pre-defined or customize your own applications
- Accept, prevent, schedule, and apply traffic-shaping

Content Security (continued)

Data Loss Prevention
- Classify 500+ pre-defined data types
- End user and data owner incident handling

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 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: 500W
- AC power input: 110 to 240V (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

<table>
<thead>
<tr>
<th>Description</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>5900 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</td>
<td>CPAP-SG5900-NGTP</td>
</tr>
<tr>
<td>5900 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</td>
<td>CPAP-SG5900-NGTX</td>
</tr>
</tbody>
</table>

### HPP CONFIGURATION

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5900 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 4x10Gb SFP+ ports, 4 SR transceivers, 16 GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Prevention (NGTP) Security Subscription Package for 1 Year</td>
<td>CPAP-SG5900-NGTP-HPP</td>
</tr>
<tr>
<td>5900 Next Generation Security Gateway with High Performance Package, includes 10x1GbE copper ports, 4x10Gb SFP+ ports, 4 SR transceivers, 16 GB RAM, 2 HDD, 2 AC Power Units, Lights Out Management (LOM), Next Generation Threat Extraction (SandBlast) Security Subscription Package for 1 Year</td>
<td>CPAP-SG5900-NGTX-HPP</td>
</tr>
</tbody>
</table>

### Accessories

#### INTERFACE CARDS AND TRANSCEIVERS

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

#### MEMORY

<table>
<thead>
<tr>
<th>Description</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory upgrade kit from 8GB to 16GB for 5900 appliance</td>
<td>CPAC-RAM8GB-5900</td>
</tr>
<tr>
<td>Memory upgrade kit from 8GB to 32GB for 5900 appliance</td>
<td>CPAC-RAM24GB-5900</td>
</tr>
<tr>
<td>Memory upgrade kit from 16GB to 32GB for 5900 appliance</td>
<td>CPAC-RAM16GB-5900</td>
</tr>
</tbody>
</table>

#### SPARES AND MISCELLANEOUS

<table>
<thead>
<tr>
<th>Description</th>
<th>SKU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional/Replacement 500GB HDD for 5900 appliances</td>
<td>CPAC-HDD-5000G-5900</td>
</tr>
<tr>
<td>SSD for 5900 Security Gateway</td>
<td>CPAC-SSD-4800G-5900</td>
</tr>
<tr>
<td>Additional/Replacement AC Power Supply for 5600 and 5900 appliances</td>
<td>CPAC-PSU-5600/5900</td>
</tr>
<tr>
<td>Additional/Replacement DC power supply unit for 5600 and 5900</td>
<td>CPAC-PSU-DC-5600/5900</td>
</tr>
<tr>
<td>Slide rails for 5000 Appliances (22” - 32”)</td>
<td>CPAC-RAILS-5000</td>
</tr>
<tr>
<td>Extended slide rails for 5000 Appliances (24” - 36”)</td>
<td>CPAC-RAILS-EXT-5000</td>
</tr>
</tbody>
</table>

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