QUANTUM 6900 SECURITY GATEWAY



Quantum Security Gateway™ Advantage

Protect larger environments	Greater resilience, faster operations	Handle more workloads

Check Point Quantum 6900 Next Generation Firewalls enables enterprises to deploy the industry's leading threat prevention capabilities at all points of their infrastructure, scaling security almost infinitely according to their changing business needs. It also dramatically accelerates the efficiency of their security operations. This enables enterprises to prevent and block even the most advanced attacks, before they can disrupt business.

Always Protected against Gen V

Highest caliber prevention with unified security

Security at Hyperscale

On-demand expansion with hyperscalability

Efficient Operations

Cut operation management time by up to 80%

PERFORMANCE HIGHLIGHTS

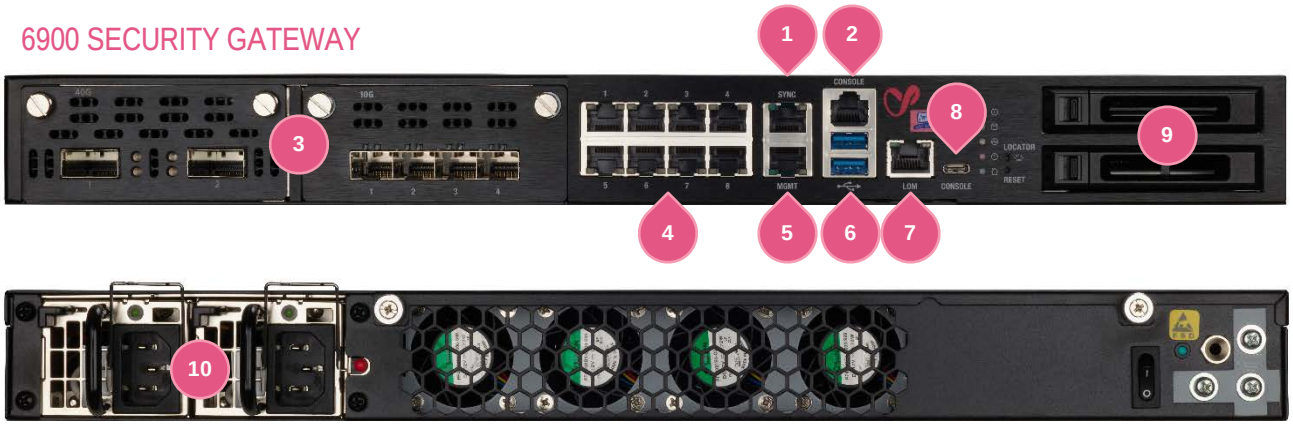
Gen II Security Firewall	Gen III Security NGFW[1]	Gen V Security Threat Prevention + SandBlast[2]
37 Gbps	17 Gbps	7.4 Gbps

Performance measured with enterprise testing conditions. Additional performance details on page 3. 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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SPOTLIGHT

6900 SECURITY GATEWAY



1.	Sync 10/100/1000 Base-T port	6.	2x USB 3.0 ports
2.	RJ45 console port	7.	Lights-out Management port
3.	2x network card expansion slots	8.	USB Type-C console port
4.	8x 10/100/1000 Base-T ports	9.	2x 480GB SSD RAID1
5.	Management 10/100/1000 Base-T port	10.	Redundant hot-swap power supplies

Prevent Known and Zero-day Threats
Check Point SandBlast Network is an evasion-resistant sandbox that provides zero-day protection from advanced and unknown threats. SandBlast Threat Extraction (CDR) ensures quick delivery of safe email and web content to users.

	NGFW	NGTP	SNBT
Firewall, VPN, Mobile Access	✓	✓	✓
Content Awareness	✓	✓	✓
Application Control	✓	✓	✓
Intrusion Prevention System	✓	✓	✓
URL Filtering		✓	✓
Antivirus and Anti-Bot		✓	✓
Threat Emulation (sandboxing)			✓
Threat Extraction (CDR)			✓

Next Generation Firewall, Next Generation Threat Prevention and Threat Prevention + SandBlast packages

All-inclusive Security Solutions
Check Point 6900 security gateways include all security technologies including the SandBlast (sandboxing) software package for one year. Purchase a renewal for NGFW, NGTP or SandBlast (SNBT) for subsequent years as you like.

Flexible I/O Options
The 6900 includes 10 on-board 1 GbE copper ports. Add additional I/O as you like in the two expansion slots; 8x 1GbE copper, 4x 1GbE fiber, 4x 10GbE SFP+ or 2x 40GbE QSFP+.



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.

ENTERPRISE-GRADE PLATFORM

	1 GbE (copper)	1 GbE (fiber)	10 GbE	40 GbE	Memory	Redundant Storage	Redundant Power	LOM
Base model	10	0	0	0	16 GB	○	○	○
Plus model	10	0	4	0	32 GB	●	●	●
Max capacity	26	8	8	4	64 GB	●	●	●

○ optional accessory

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SPECIFICATIONS

Performance

Enterprise Test Conditions	
Threat Prevention[1] (Gbps)	7.4
NGFW[2] (Gbps)	17
IPS (Gbps)	19
Firewall (Gbps)	37
RFC 3511, 2544, 2647, 1242 PERFORMANCE (LAB)	
Firewall 1518B UDP (Gbps)	63
VPN AES-128 (Gbps)	9.81
Connections/sec	230,000
Concurrent connections[3]	4/8/16M

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/Plus/maximum memory.

Additional Features

Highlights

- 1x CPUs, 8 physical cores, 16 virtual cores
- 1x 480GB SSD storage (2x in Plus)
- 1 AC or DC power supply (2x in Plus)
- 16, 32 and 64 GB memory options
- Lights-Out-Management (included in Plus)
- Virtual Systems (Base/Plus/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 40GBase-F QSFP+ port card, up to 4 ports

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: 300W
- AC power input: 100 to 240V (47-63Hz)
- Power consumption avg/max: 139W/275W
- Maximum thermal output: 938 BTU/hr.

Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.2 x 20 x 1.73 in. (438 x 508 x 44mm)
- Weight (Base/Plus): 17.6/19.8 lbs. (8.45/9 kg)

Environmental Conditions

- Operating: 0° to 40°C, humidity 95%
- Storage: –20° to 70°C, humidity 95%

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 QUANTUM 6900 SECURITY GATEWAYS

BASE CONFIGURATION [1]	SKU
6900 Security Gateway Base configuration, includes 10x 1GbE copper ports, 16 GB RAM, 1 SSD, 1 AC PSU, telescopic rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG6900-SNBT
6900 Security Gateway Plus configuration, includes 10x 1GbE copper ports, 4x 10GbE SFP+ ports, 4x SR transceivers, 32 GB RAM, 2x SSD, 2x AC PSU, Lights-out Management, telescopic rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG6900-PLUS-SNBT

[1] Renewal NGFW, NGTP and SandBlast (SNBT) packages are available in the online product catalog.

Accessories

INTERFACE CARDS AND TRANSCEIVERS	
8 Port 10/100/1000 Base-T RJ45 interface card	CPAC-8-1C-C
4 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceivers	CPAC-4-1F-C
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX-C
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX-C
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T-C
4 Port 10GBase-F SFP+ interface card	CPAC-4-10F-C
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR-C
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR-C
SFP+ transceiver 10GBASE-T RJ45 (Copper) - for links up to 30m over CAT6a/CAT7	CPAC-TR-10T-C
2 Port 40G QSFP28 interface card	CPAC-2-40F-C
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-10Km
Bi-directional QSFP transceiver for 40G fiber Ports - short range (40GBase-SR-BD)	CPAC-TR-40SR-QSFP-BiDi
4 Port 1GE copper Bypass (Fail-Open) Network interface card (10/100/1000 Base-T)	CPAC-4-1C-BP-C
2 Port 10GE Short-range Fiber Bypass (Fail-Open) Network interface card (10GBase-SR)	CPAC-2-10FSR-BP-C
MEMORY	**SKU**
Memory upgrade kit from 16GB to 32GB for 6900 appliance	CPAC-RAM16GB-6900
Memory upgrade kit from 16GB to 64GB for 6900 appliance	CPAC-RAM48GB-6900
Memory upgrade kit from 32GB to 64GB for 6900 appliance	CPAC-RAM32GB-6900
SPARES AND MISCELLANEOUS	**SKU**
Additional/Replacement AC Power Supply for 6900 appliances	CPAC-PSU-6600/6900
Additional/Replacement DC Power Supply for 6600, 6700, 6900 appliances	CPAC-PSU-DC-6600/6700/6900
480GB SSD for 6900 Security Gateways	CPAC-SSD-480G-6900
Lights Out Management module	CPAC-LOM-C
Slide rails for 6000 and 7000 Security Appliances (22” - 32”)	CPAC-RAILS-6000/7000
Extended slide rails for 6000 and 7000 Security Appliances (24” - 36”)	CPAC-RAILS-EXT-60007000

Virtual Systems packages also available in the online product catalog.

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