

# QUANTUM 6900 SECURITY GATEWAY



**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 according to their changing business needs. This enables enterprises to prevent and block even the most advanced attacks, before they can disrupt business — greatly increasing the efficiency of their security operations.



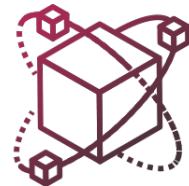
## Always Protected against Gen V

Highest caliber prevention with unified security



## Security at Hyperscale

On-demand expansion with hyperscalability



## Efficient Operations

Cut operation management time by up to 80%

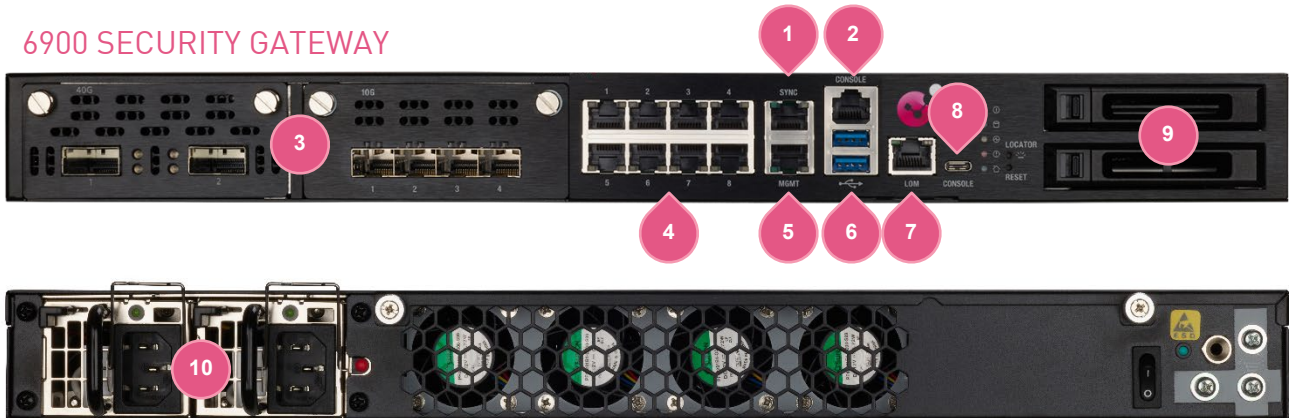
## PERFORMANCE HIGHLIGHTS

Gen II Security Firewall	Gen III Security NGFW <sup>1</sup>	Gen V Security Advanced Threat Prevention <sup>2</sup>
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.

## 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 Threat Emulation 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		✓	✓
DNS Security		✓	✓
Threat Emulation (sandboxing)			✓
Threat Extraction (CDR)			✓
Zero Phishing			✓

Next Generation Firewall, Next Generation Threat Prevention and SandBlast packages

#### IoT Security

Quantum IoT Protect now provides autonomous threat prevention. Quantum Firewalls discover IoT assets, feed those to the IoT Cloud Service to automatically map IoT devices to profiles and then applies a zero-trust policy on the firewalls to prevent IoT threats in 5 minutes.

#### 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, or 4x 10GbE SFP+.

#### Integrated SD-WAN

Security protects you when you're connected. SD-WAN ensures you're always connected, and the connection offers the best user experience for the lowest cost. Quantum SD-WAN in Quantum firewalls keeps you secure and connected.

#### Remote Management and Monitoring

A Lights-Out-Management (LOM) card provides out-of-band 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	100/40/25 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	2	64 GB	●	●	●

○ optional accessory

## SPECIFICATIONS

### Performance

#### Enterprise Test Conditions

Threat Prevention <sup>1</sup> (Gbps)	7.4
NGFW <sup>2</sup> (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 <sup>3</sup>	4/8/16M

1: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection with logging enabled. 2: Includes Firewall, Application Control and IPS with logging enabled. 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 100/40/25G QSFP28 port double-slot-width 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 10,000+ 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

- Integrated SD-WAN network optimization and resilience
- 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 (50-60Hz)
- Power consumption avg/max: 139W/195W
- Maximum thermal output: 665.4 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<sup>1</sup>, ISO14001<sup>1</sup>

## ORDERING QUANTUM 6900 SECURITY GATEWAYS

BASE CONFIGURATION <sup>1</sup>	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
Quantum IoT Network Protection for 1 year for 6900 appliances	CPSB-IOTP-6900-1Y
Quantum IoT Network Protection for 1 year for 6900 PLUS appliances	CPSB-IOTP-6900-PLUS-1Y
Quantum SD-WAN subscription for 1 year for 6900 appliances	CPSB-SDWAN-6900-1Y
Quantum SD-WAN subscription for 1 year for 6900 PLUS appliances	CPSB-SDWAN-6900-PLUS-1Y

The Base and Plus packages include 2 trial virtual systems (VS). These are not additive or counted when adding additional VS licenses.

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 - for links up to 40km (10GBASE-ER)	CPAC-TR-10ER-C
SFP+ transceiver module for 10G fiber ports - long range up to 10km (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
10G SFP+ Direct Attach Copper (DAC) cable, 3 meters	CPAC-DAC-10G-3M
2 Port 10/25/40/100G QSFP28 Dual Width interface card *	CPAC-2-40/100F-C
QSFP28 transceiver module for 100G fiber ports - short range (100GBase-SR4)	CPAC-TR-100SR
QSFP28 transceiver module for 100G fiber ports - long range (100GBase-LR4)	CPAC-TR-100LR
100G SWDM4, LC connector, 75m/OM3 fiber	CPAC-TR-100SWDM4
100G CWDM4, LC connector, 2Km/ single mode fiber	CPAC-TR-100CWDM4
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
QSFP28 to SFP28 Adapter - 10G/25G fiber adaptor	CPAC-TR-QSFP28-SFP28
SFP28 transceiver module for 25G fiber ports with QSFP28 adaptor - short range (25GBase-SR)	CPAC-TR-25SR-ADP
SFP28 transceiver module for 25G fiber ports with QSFP28 adaptor - long range (25GBase-LR)	CPAC-TR-25LR-ADP
SFP+ transceiver module for 10G fiber with QSFP28 adaptor - for links up to 40km (10GBASE-ER)	CPAC-TR-10ER-ADP
SFP+ transceiver module for 10G fiber with QSFP28 adaptor - long range up to 10km (10GBase-LR)	CPAC-TR-10LR-ADP
SFP+ transceiver module for 10G fiber with QSFP28 adaptor - short range (10GBase-SR)	CPAC-TR-10SR-ADP
SFP+ transceiver 10GBASE-T RJ45 (Copper) with QSFP28 adaptor - for links up to 30m over CAT6a/CAT7	CPAC-TR-10T-ADP
100G Direct Attach Copper cable (QSFP28), 3 meters	CPAC-DAC-100G-3M
40G Direct Attach Copper cable (QSFP28), 3 meters	CPAC-DAC-40G-3M
25G Direct Attach Copper cable (QSFP28), 3 meters	CPAC-DAC-25G-3M
10G Direct Attach Copper cable, (10BASE-CU) 3 meters	CPAC-DAC-10G-3M

\* CPAC-2-40/100F-C 25G transceivers will be supported in a future Jumbo Hot Fix

## ORDERING QUANTUM 6900 (Continued)

<b>BYPASS (FAIL-OPEN) NETWORK INTERFACE CARDS</b>	<b>SKU</b>
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

<b>MEMORY</b>	<b>SKU</b>
Memory upgrade kit from 16GB to 32GB for 6900 appliances	CPAC-RAM16GB-6900
Memory upgrade kit from 16GB to 64GB for 6900 appliances	CPAC-RAM48GB-6900
Memory upgrade kit from 32GB to 64GB for 6900 appliances	CPAC-RAM32GB-6900

<b>SPARES AND MISCELLANEOUS</b>	<b>SKU</b>
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-NLDM-C
Slide rails for 6000 and 7000 Security Appliances (22" - 32")	CPAC-RAILS-6000/7000
Telescopic slide rails for 6000 and 7000 Security Appliances (24" - 36")	CPAC-RAILS-EXT-6000/7000

## All-inclusive Security

	<b>NGFW</b>	<b>NGTP</b>	<b>SNBT (SandBlast)</b>
	Basic access control plus IPS	Prevent known threats	Prevent known and zero-day attacks
Firewall	✓	✓	✓
VPN (IPsec)	✓	✓	✓
Mobile Access	✓	✓	✓
Identity Awareness	✓	✓	✓
Application Control	✓	✓	✓
Content Awareness	✓	✓	✓
IPS	✓	✓	✓
URL Filtering		✓	✓
Anti-Bot		✓	✓
Anti-Virus		✓	✓
Anti-Spam		✓	✓
DNS Security		✓	✓
SandBlast Threat Emulation			✓
SandBlast Threat Extraction			✓
Zero Phishing			✓
IoT Network Protection	optional	optional	optional
SD-WAN Network Optimization	optional	optional	optional

The first-year purchase includes the SNBT package. Security subscription renewals, NGFW, NGTP and SNBT are available for subsequent years. Optional security capabilities can be ordered a-la-carte or separately.