

# QUANTUM 7000 SECURITY GATEWAY



**Top Security Effectiveness**  
Leader with 99.7% malware block rate in Miercom NGFW Security Benchmark (2023)

**AI ML powered Threat Prevention**  
Protect networks and users from zero-days, phishing, DNS, and ransomware attacks

**Hyperscale Network Security**  
On-demand expansion and resilient access to mission-critical applications

**Unified Management and Ops Efficiency**  
Increase protection and reduce TCO with a consolidated security architecture

**Industry Recognition**  
Named a Leader for the 23rd time in the Gartner® Magic Quadrant™ for Network Firewalls  
Named a Leader in the Forrester Wave™ Enterprise Firewalls Q4 2022  
Awarded the Frost & Sullivan Firewall Company of the Year

## AI Deep Learning powered threat prevention to secure enterprises

Check Point Quantum 7000 Next Generation Firewalls enable 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.

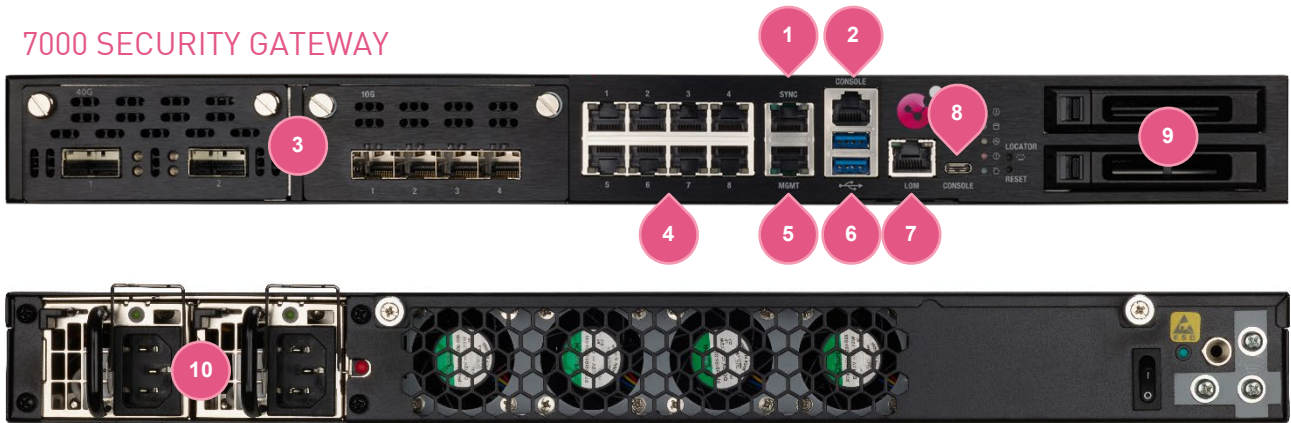
### PERFORMANCE HIGHLIGHTS

| Firewall | Next Gen Firewall | Threat Prevention |
|----------|-------------------|-------------------|
| 48 Gbps  | 22 Gbps           | 9.5 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

### 7000 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 |

#### AI Deep Learning Threat Prevention

The speed and sophistication of evasive zero-day DNS and phishing attacks requires AI Deep Learning to predict and block malicious behavior without human intervention. Quantum firewalls use Check Point's threat intelligence cloud 40+ AI/ML engines to block emerging threats that haven't been seen before.

|                               | 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

#### Autonomous 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

Purchase the affordable Plus package and get a base system plus 4x 10GbE SFP+ ports with transceivers, 2x AC power supplies, 2x SSD drives, Lights-out Management and 32 GB of memory for high connection capacity.

#### 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) | 9.5 |
| NGFW <sup>2</sup> (Gbps)              | 22  |
| IPS (Gbps)                            | 25  |
| Firewall (Gbps)                       | 48  |

#### RFC 3511, 2544, 2647, 1242 PERFORMANCE (LAB)

|                                     |         |
|-------------------------------------|---------|
| Firewall 1518B UDP (Gbps)           | 76.8    |
| VPN AES-128 (Gbps)                  | 11.9    |
| Connections/sec                     | 330,000 |
| 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, 16 physical cores, 32 virtual cores
- 1x 480 GB SSD storage (2x in Plus)
- 1 AC power supply (2x in Plus)
- 16, 32 and 64 GB memory options
- Lights-Out-Management (included in Plus)
- Virtual Systems (Base/Plus/max mem): 10/30/50

#### 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: 500W
- AC power input: 100 to 240V (47-63Hz)
- Power consumption avg/max: 144W/190W
- Maximum thermal output: 648.3 BTU/hr.

#### Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.2 x 22.83 x 1.73 in. (438 x 580 x 44mm)
- Weight (Base/Plus): 17.6/19.8 lbs. (8.45/9 kg)

#### Environmental Conditions

- Operating: 0° to 40°C, humidity 5 to 95%
- Storage: -20° to 70°C, humidity 5 to 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>

<sup>1</sup>. factory certificate

## ORDERING QUANTUM 7000 SECURITY GATEWAYS

| BASE CONFIGURATION <sup>1</sup>   | SKU                     |
|---|-------------------------|
| 7000 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-SG7000-SNBT        |
| 7000 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-SG7000-PLUS-SNBT   |
| Quantum IoT Network Protection for 1 year for 7000 appliances   | CPSB-IOTP-7000-1Y       |
| Quantum IoT Network Protection for 1 year for 7000 PLUS appliances  | CPSB-IOTP-7000-PLUS-1Y  |
| Quantum SD-WAN subscription for 1 year for 7000 appliances  | CPSB-SDWAN-7000-1Y      |
| Quantum SD-WAN subscription for 1 year for 7000 PLUS appliances   | CPSB-SDWAN-7000-PLUS-1Y |

The Base and Plus packages include 2 virtual systems (VS) - one management VS and one production/data VS. These are not additive or counted when adding additional VS licenses. <sup>1</sup> Renewal NGFW, NGTP and SandBlast (SNBT) packages and optional IoT and SD-WAN a la carte services 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 7000 (Continued)

| BYPASS (FAIL-OPEN) NETWORK INTERFACE CARDS   | SKU               |
|--|-------------------|
| 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 7000 appliances | CPAC-RAM16GB-7000 |
| Memory upgrade kit from 16GB to 64GB for 7000 appliances | CPAC-RAM48GB-7000 |
| Memory upgrade kit from 32GB to 64GB for 7000 appliances | CPAC-RAM32GB-7000 |

| SPARES AND MISCELLANEOUS   | SKU                      |
|--|--------------------------|
| Additional/Replacement AC Power Supply for 7000 appliances               | CPAC-PSU-AC-7000         |
| Additional/Replacement DC Power Supply for 7000 appliances               | CPAC-PSU-DC-7000         |
| 480GB SSD for 7000 Security Gateways                                     | CPAC-SSD-480G-7000       |
| 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

|                             | NGFW                             | NGTP                  | SNBT<br>(SandBlast)                    |
|-----------------------------|----------------------------------|-----------------------|--|
|                             | Basic access control<br>plus IPS | Prevent known threats | Prevent known and zero-<br>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.