

QUANTUM 16600 HYPERSCALE 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 16600 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.

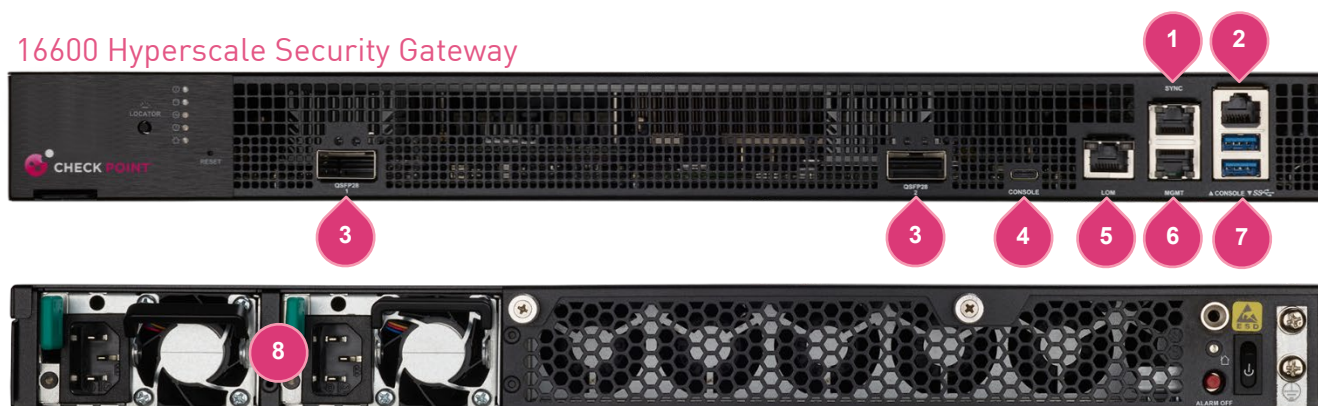
PERFORMANCE HIGHLIGHTS

| Firewall | Next Gen Firewall | Threat Prevention |
|----------|-------------------|-------------------|
| 87 Gbps | 30 Gbps | 17.6 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

16600 Hyperscale Security Gateway



- | | |
|---------------------------------|---------------------------------------|
| 1. Sync 10/100/1000 Base-T port | 5. Lights-out Management port |
| 2. RJ45 console port | 6. Management 10/100/1000 Base-T port |
| 3. 2x 100 GbE QSFP28 ports | 7. 2x USB 3.0 ports |
| 4. USB Type-C console port | 8. 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

All-inclusive Security Solutions

Check Point 16600 security gateways include all security technologies in the SandBlast software package for one year. Purchase a renewal for NGFW, NGTP or SandBlast (SNBT) for subsequent years as you like.

Hyperscale Network Security

With the Maestro Hyperscale solution you save money by getting the most from your existing resources and scale up to meet new demands. Maestro distributes the load so that each gateway is fully used.



100 and 25 GbE Connectivity

If you're ready to move from 10 to 25 or 100 GbE, so is the 16600 Next Generation Security Gateway. The 16600 Security Gateway lets you connect your server uplinks to your core network.

DATA CENTER GRADE PLATFORM

| 1 GbE copper | 100/25 GbE | Memory | Redundant Power | LOM |
|--------------|------------|--------|-----------------|-----|
| 2 | 2 | 128 GB | ● | ● |

SPECIFICATIONS

Performance

Enterprise Test Conditions

| | |
|---------------------------------------|------|
| Threat Prevention ¹ (Gbps) | 17.6 |
| NGFW ² (Gbps) | 30 |
| IPS (Gbps) | 42 |
| Firewall (Gbps) | 87 |

RFC 3511, 2544, 2647, 1242 Performance (Lab)

| | |
|---------------------------|---------|
| Firewall 1518B UDP (Gbps) | 117 |
| VPN AES-128 (Gbps) | 17 |
| Connections/sec | 375,000 |
| Concurrent connections | 32M |

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..

Additional Features

Highlights

- 2x CPUs, 24 physical cores, 48 virtual cores
- 1x 480 GB SSD
- 2x AC power supplies
- 128 GB of memory
- Virtual Systems (maximum): 250

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

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: 850W
- Power input: 100 to 240V (47-63Hz), 40--72VDC
- Power consumption avg/max: AC188W/438W
- Maximum thermal output AC: 1494 BTU/hr.

Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.4 x 24 x 1.73 in. (442 x 610 x 44mm)
- Weight: 28.7 lbs. (13 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, REACH¹, ISO14001¹

¹. factory certificate

ORDERING QUANTUM 16600 SECURITY GATEWAYS

| SECURITY APPLIANCE ¹ | SKU |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 16600 Hyperscale configuration: 2x 1GbE copper ports, 2x 100 GbE QSFP28 ports, 128 GB RAM, 1x 480 GB SSD, 2x AC PSUs, telescopic rails, SandBlast (SNBT) Security Subscription Package for 1 Year. | CPAC-SG16600-HS-SNBT |

| INTERFACE TRANSCEIVERS | |
|---------------------------------------------------------------------------------------------|------------------------|
| 100G SWDM4, LC connector, 75m/OM3 fiber | CPAC-TR-100SWDM4 |
| 100G CWDM4, LC connector, 2Km/ single mode fiber | CPAC-TR-100CWDM4 |
| 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 |
| 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 |
| 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 |

| DIRECT ATTACH COPPER CABLES | |
|-----------------------------------------------------------|------------------|
| 100G QSFP28 Direct Attach Copper (DAC) cable, 3 meters | CPAC-DAC-100G-3M |
| 40G Direct Attach Copper (DAC) cable 40BASE-CR4, 3 meters | CPAC-DAC-40G-3M |
| 25G SFP28 Direct Attach Copper (DAC) cable, 3 meters | CPAC-DAC-25G-3M |

| SPARES AND MISCELLANEOUS | SKU |
|-----------------------------------------------------------------------|------------------------------------|
| AC power supply for 16600HS, 26000, 28000, 28600HS Security Gateways | CPAC-PSU-AC-26000/28000 |
| Dual DC power supplies for 16000, 26000, 28000 Security Gateways | CPAC-PSU-DC-Dual-16000/26000/28000 |
| DC power supply for 16000 and 26000 Security Gateways | CPAC-PSU-DC-16000/26000/28000 |
| Replacement 16GB RAM memory module for 16600, 28600 Security Gateways | CPAC-RAM16GB-16/28K-HS |
| Replacement Lights-Out Management Module | CPAC-NLOM-C |
| Slide rails for 16600 Security Gateways (22" - 32") | CPAC-RAIL-L |
| Extended slide rails for 16600 Security Gateways (24" - 36") | CPAC-RAIL-EXT-L |

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

ORDERING QUANTUM 16600 (Continued)

All-inclusive Security

| | NGFW | NGTP | SNBT (SandBlast) |
|-----------------------------|----------------------------------|-----------------------|----------------------------------------|
| | 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 | | | ✓ |

The first-year purchase includes the SNBT package. Security subscription renewals, NGFW, NGTP and SNBT are available for subsequent years.