

Quantum Force 29200

Security Gateway



YOU DESERVE THE BEST SECURITY



Top Security Effectiveness

Check Point #1 for the 2nd year in a row with 99.8% malware block rate in Miercom Next-Generation Firewall Security Benchmark (2024)

Named a Leader by Top Analyst Firms

Forrester Wave™ for Zero Trust Platform Providers, Q3 2023
 Gartner® Firewall Magic Quadrant™ (2022)

AI/ML powered Threat Prevention

Protect networks and users from zero-days, phishing, DNS, and ransomware attacks

Hyperscale Network Security

On-demand expansion, load balancing firewall clustering, and resilient access to mission-critical applications

Unified Management and Ops Efficiency

Increase protection and reduce TCO with a consolidated security architecture

Quantum 29200 firewalls deliver up to 1.4 Tbps of firewall and 63.5 Gbps of threat prevention throughput with integrated AI/ML security, power efficiency and space savings in a modular 2 RU platform.

Increase the efficiency of your datacenter's security operations. Prevent even the most advanced attacks before they can infect their target. And manage your on-premises and cloud firewalls from a unified platform.



Fastest AI-Powered
Threat Prevention



Network Resilience &
Power Efficiency



Unified Security
Management

29200 Performance Highlights

| Firewall | Next Gen Firewall | Threat Prevention |
|----------|-------------------|-------------------|
| 500 Gbps | 165 Gbps | 63.5 Gbps |

AI-Powered advanced security and uncompromising performance, built for data centers

Check Point Quantum Force 29200 data center firewalls deliver high threat prevention performance in a small 2 RU form factor to protect employees, networks, and data from cyber-theft. Seven network I/O slots can be configured to fit your network with a high port density of up to 56x1/10GbE, 28x10/25GbE or 14x40/100GbE port capacity.

Comprehensive and Industry-Leading Security

- Next Generation Firewall
- Site-to-Site and Remote Access VPN
- Application and Web Filtering
- Intrusion Prevention
- Antivirus and Anti-Bot
- Advanced DNS Security
- Sandboxing with file sanitization
- Zero-phishing (no agent required)

Highest Performance Threat Prevention

With the 29200, organizations can inspect encrypted traffic and prevent even the most evasive attacks without impacting internal network performance. Achieve 63.5 Gbps of threat prevention throughput or up to 1.4 Tbps of UDP 1518B firewall throughput with a single 2RU firewall.

Modular, High Port Density 2RU Chassis

The 29200 offers the flexibility to fit your changing network requirements. Populate seven network I/O slots with your choice of network cards: 2x40/100G, 4x10/25G and 8x1/10G. In addition, the 40/100 card benefits for ASIC based firewall acceleration.

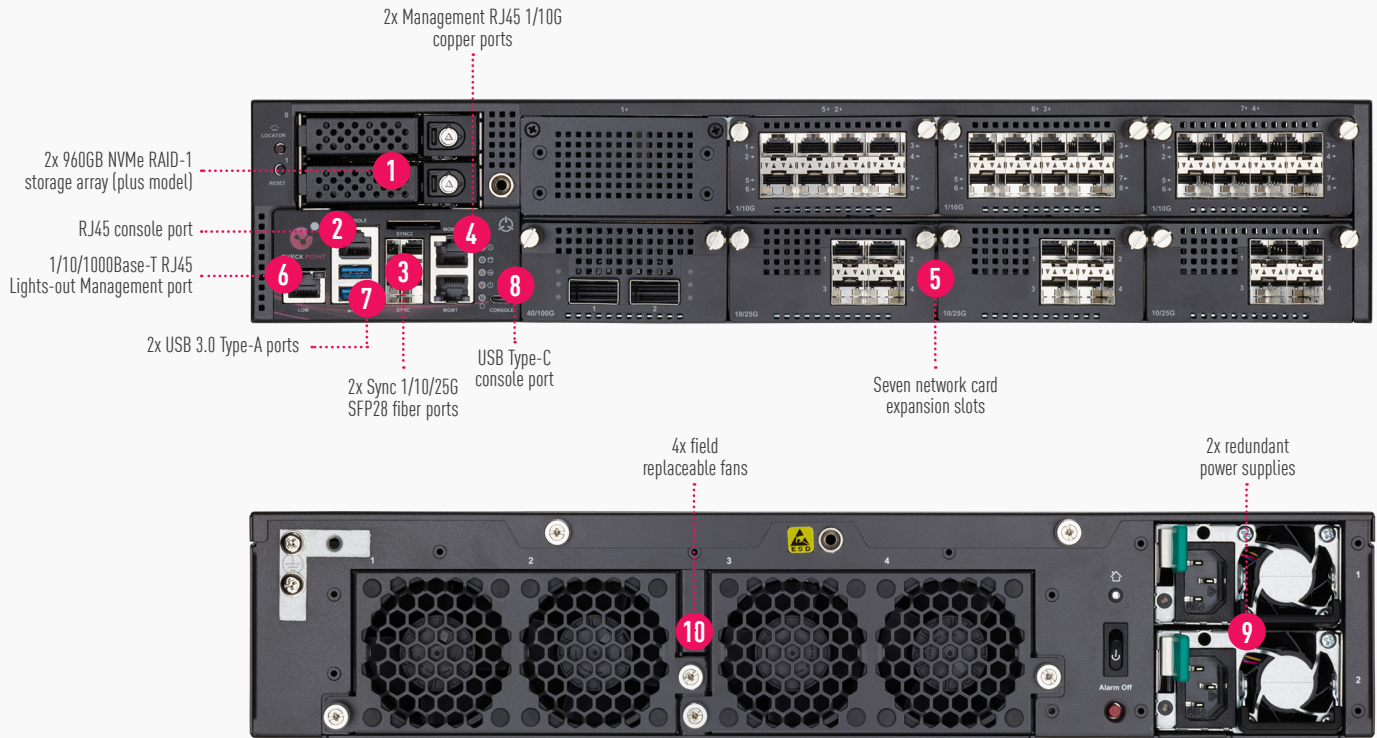


Power Efficient, Resilient Design

With a low power consumption per Gbps of threat prevention throughput, these large enterprise firewalls cut power costs in half when compared with similar firewalls from other vendors. Dual, redundant hot-swap power supplies and dual 960 GB RAID-1 NVMe storage provides complete redundancy.

Flexible, High Performance HTTPS Inspection

While commonly used for good, HTTPS traffic can also hide illegal user activity and malicious traffic. Enterprises need the ability to inspect a broad range of encrypted TLS 1.3 and HTTP/2 channels while also excluding inspection of sensitive industry traffic, such as Health Care and Financial that have special regulatory requirements. Check Point makes it easy to fine-tune HTTPS security using customizable dynamic security policies.



Specifications

Performance

Enterprise Test Conditions¹

| | |
|---------------------------------------|------|
| Threat Prevention ² [Gbps] | 63.5 |
| NGFW ³ [Gbps] | 165 |
| IPS [Gbps] | 235 |
| Firewall [Gbps] | 500 |

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

| | |
|--|-------------|
| Firewall 1518B UDP [Gbps] | 1,400 |
| Firewall Latency (avg) | 1.85µSec |
| VPN AES-GCM 1452B [Gbps] | 130 |
| Connections/sec | 1,500,000 |
| Concurrent connections (Base/Plus/Max) | 30M/48M/67M |

HTTP/TLS Inspection Performance

| | |
|--|-------|
| Threat Prevention ^{1,2} [Gbps] | 24.6 |
| Threat Prevention ² web mix ⁴ [Gbps] | 18.6 |
| IPS web mix ⁴ [Gbps] | 25.04 |

¹ Enterprise traffic profile measured with maximum memory

² Includes Firewall, App Control, URLF, IPS, Anti Malware (Bot, Virus & Spam), DNS Security, Zero-Phishing and SandBlast Threat Emulation & Extraction with logging enabled

³ Includes Firewall, App Control and IPS with logging enabled

⁴ Web traffic mix is based on NetSecOpen web traffic profile

Additional Features

Highlights

- CPU: 64 physical cores, total of 128 logical cores
- Storage: BASE x 1 SSD 960GB NVMe, PLUS x 2 SSD 960GB NVMe
- 2x AC power supplies
- 128, 192 and 256 GB memory options
- Lights-Out-Management card (included in Plus package)

Network Expansion Slot Options

- 8 x 1/10GBASE-F SFP+ port card, up to 56 ports
- 4 x 10/25GBASE-F SFP28 port card, up to 30 ports
- 2 x 40/100GBASE-F QSFP28 port card, up to 14 ports

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 AC: 1300W
- Power input: 100 to 240VAC (47-63Hz)
- Power consumption 110VAC avg/max: 600W/999W
- Maximum thermal output AC: 3408.7 BTU/hr.

Dimensions

- Enclosure: 2RU
- Dimensions (WxDxH): 17.25 x 24 x 3.5 in. (442 x 610 x 88mm)
- Weight: 42.1 lbs. (19.1 kg)

Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95%
- Storage: -20° to 70°C, humidity 5% to 95% at 60°C
- MTBF: > 10 years

Certifications

- Safety: CB IEC 62368-1, CE LVD EN62368-1, UL62368-1, ASNZS 62368.1
- Emissions: CE, FCC IC, VCCI, ASNZS ACMA
- Environmental: ROHS, REACH, WEEE, ISO14001

Maximum Virtual System Capacity

| | Firewall VS | Firewall + IPS VS | Next Gen Threat Prevention VS |
|---------------|-------------|-------------------|-------------------------------|
| Base model | 300 | 160 | 84 |
| Plus model | 300 | 160 | 126 |
| Max capacity | 300 | 160 | 128 |
| Maestro / MHS | 300 | 160 | 80 |

Ordering Quantum Force 29200 Security Gateway

The 29200 includes 2x 1/10 copper GbE management ports plus an additional 2x 1/10/25 SFP28 ports for synchronization when using the 29200 in a cluster. With the seven network I/O slots, modify the base or plus configuration to meet your networking requirements. The 40/100G ports enable firewall traffic acceleration at line-rate.

| | 1/10 GbE Copper | 1/10 GbE Fiber | 10/25 GbE Fiber | 40/100* GbE Fiber | Memory | Redundant Power | Redundant Storage | LOM |
|---------------|-----------------|----------------|-----------------|-------------------|--------|-----------------|-------------------|-----|
| Base model | 2 | 8 | 2 | 0 | 128 GB | ● | ○ | ○ |
| Plus model | 2 | 16 | 6 | 2 | 192 GB | ● | ● | ● |
| Max capacity | 2 | 56 | 30 | 14 | 256 GB | ● | ● | ● |
| Maestro / MHS | 2 | 0 | 0 | 4 | 128 GB | ● | ● | ● |

- Available
- Unavailable

| SECURITY APPLIANCE ¹ | SKU |
|---|----------------------------|
| 29200 Base configuration: 2x 1/10GbE copper management ports, 2x, 1/10/25GbE SFP28 fiber sync ports, 8x 1/10GbE SFP+ ports, 128 GB RAM, 1x 960 GB NVMe, 2x 10 GbE Short Range Transceivers, 2x AC PSUs, telescopic rails, SandBlast (SNBT) Security Subscription Package for 1 Year | CPAP-SG29200-SNBT |
| 29200 Plus configuration: 2x 1/10GbE copper management ports, 2x, 1/10/25GbE SFP28 fiber sync ports, 16x 1/10GbE SFP+ ports, 4x 10/25GbE SFP28 fiber ports, 2x 10 GbE Short Range Transceivers, 2x 100/40GbE QSFP28 ports, 192 GB RAM, 2x 960GB NVMe, 2x AC PSUs, Lights-Out Management (LOM), telescopic rails, 5 Virtual Systems, SandBlast (SNBT) Security Subscription Package for 1 Year | CPAP-SG29200-PLUS-SNBT |
| Quantum Force 29200 Maestro / MHS HyperScale configuration: 2x2x40/100GbE QSFP fiber ports, 4x100GbE DAC 3m transceivers, 128 GB RAM, 2x 960GB NVMe, 2x 10 GbE Short Range Transceivers, 2x AC PSUs, Lights-Out Management (LOM), Sliding rails, with SandBlast subscription package for 1 year | CPAP-SG29200-PLUS-MHS-SNBT |
| Quantum Force 29200 Maestro / MHS HyperScale configuration with 1 MHO-175 orchestrator and 2 Quantum Force 29200 appliances, each appliance includesx 2x40/100GbE QSFP fiber ports, 2x 100GbE DAC 3m transceivers, 128 GB RAM, 2x 960GB NVMe, 2x 10 GbE Short Range Transceivers, 2x AC PSUs, Lights-Out Management (LOM), Sliding rails, with SandBlast subscription package for 1 year | CPAP-MHS-29202-PLUS-SNBT |
| Quantum Force 29200 Maestro / MHS HyperScale configuration with 1 MHO-175 orchestrator and 3 Quantum Force 29200 appliances, each appliance includesx 2x40/100GbE QSFP fiber ports, 2x 100GbE DAC 3m transceivers, 128 GB RAM, 2x 960GB NVMe, 2x 10 GbE Short Range Transceivers, 2x AC PSUs, Lights-Out Management (LOM), Sliding rails, with SandBlast subscription package for 1 year | CPAP-MHS-29203-PLUS-SNBT |
| Next Generation Threat Prevention & SandBlast package for 1 year for Quantum Force 29200 appliance | CPSB-SNBT-29200-1Y |
| Next Generation Threat Prevention package for 1 year for Quantum Force 29200 appliance | CPSB-NGTP-29200-1Y |
| Next Generation Firewall Package for 1 year for Quantum Force 29200 appliance | CPSB-NGFW-29200-1Y |
| Quantum IoT Network Protection for 1 year for Quantum Force 29200 appliances | CPSB-IOTP-29200-1Y |
| Quantum SD-WAN subscription for 1 year for Quantum Force 29200 appliances | CPSB-SDWAN-29200-1Y |
| Data Loss Prevention (DLP) blade for 1 year for Quantum Force 29200 appliances | CPSB-DLP-29200-1Y |

¹ The Base package includes 2 virtual systems (VS)—one management VS and one production/data VS which are not additive or counted when adding additional VS licenses. Plus model 5 VS licenses which are additive when adding additional VS licenses.

ACCESSORIES

| INTERFACE CARDS | SKU |
|--|------------------|
| 8 Port 1/10 G Base-F SFP+ interface card for 19000/29000 appliances | CPAC-8-1/10F-D |
| 4 Port 10/25G Base-F SFP28 interface card for 19000/29000 appliances | CPAC-4-10/25F-D |
| 2 Port 10/25/40/100G Base-F QSFP28 interface card for 19000/29000 appliances | CPAC-2-40/100F-D |

| TRANSCEIVERS | SKU |
|--|--------------------------|
| Compatible with the CPAC-8-1/10F-D and CPAC-4-10/25F-D, Interface Cards | |
| SFP transceiver module for 1000 BASE fiber ports - long range (1000BASE-LX), SM Fiber, LC | CPAC-TR-1LX-D |
| SFP transceiver module for 1000 BASE fiber ports - short range (1000BASE-SX), MM Fiber, LC | CPAC-TR-1SX-D |
| SFP transceiver to 1000 BASE-T RJ45 (Copper), CU, RJ45 | CPAC-TR-1T-D |
| SFP+ transceiver module for 10GbE fiber ports - long range (10GBASE-LR), SM Fiber, LC | CPAC-TR-10LR-D |
| SFP+ transceiver module for 10GbE fiber ports - short range (10GBASE-SR), MM Fiber, LC | CPAC-TR-10SR-D |
| SFP+ transceiver module for 10GbE fiber ports - for links up to 40km (10GBASE-ER), SM Fiber, LC | CPAC-TR-10ER-D |
| SFP+ transceiver 10GBASE-T RJ45 (Copper) - for links up to 30m over CAT6a/CAT7, CU, RJ45 | CPAC-TR-10T-D |
| Compatible with the CPAC-4-10/25F-D Interface Cards | |
| SFP28 transceiver module for 25GbE fiber ports - short range (25GBASE-SR), MM Fiber, LC | CPAC-TR-25SR-D |
| Compatible with the CPAC-2-40/100F-D Interface Card | |
| SFP+ transceiver module for 10GbE fiber ports - long range (10GBASE-LR), SM Fiber, LC with QSFP28 Adapter | CPAC-TR-10LR-D-ADP |
| SFP+ transceiver module for 10GbE fiber ports - short range (10GBASE-SR) MM Fiber, LC with QSFP28 Adapter | CPAC-TR-10SR-D-ADP |
| SFP+ transceiver module for 10GbE fiber ports - for links up to 40km (10GBASE-ER) SM Fiber, LC with QSFP28 Adapter | CPAC-TR-10ER-D-ADP |
| SFP+ transceiver 10GBASE-T RJ45 (Copper) - for links up to 30m over CAT6a/CAT7 with QSFP28 Adapter | CPAC-TR-10T-D-ADP |
| SFP28 transceiver module for 25GbE fiber ports - short range (25GBASE-SR) MM Fiber, LC with QSFP28 Adapter | CPAC-TR-25SR-D-ADP |
| QSFP+ transceiver for 40GbE fiber Ports - short range (40GBASE-SR4) , MM Fiber, MPO-12 | CPAC-TR-40SR-QSFP-100m-D |
| QSFP+ transceiver module for 40GbE fiber ports - short range (40GBASE-eSR4), MM Fiber, MPO-12 | CPAC-TR-40SR-QSFP-300m-D |
| QSFP Bi-directional transceiver for 40GbE fiber ports - short range (40GBASE-SR-BD), MM Fiber, LC | CPAC-TR-40SR-QSFP-BiDi-D |
| QSFP+ transceiver module for 40GbE fiber ports for links up to 75m (40GBASE-SWDM4) MM Fiber, LS | CPAC-TR-40SWDM4 |
| QSFP+ transceiver module for 40GbE fiber ports - long range (40GBASE-LR5), SM Fiber, LC | CPAC-TR-40LR-QSFP-10Km-D |
| QSFP28 transceiver module for 100GbE fiber ports - long range (100GBASE-LR4), SM Fiber, LC | CPAC-TR-100LR-D |
| QSFP28 transceiver module for 100GbE fiber ports - short range (100GBASE-SR4), MM Fiber, MPO-12 | CPAC-TR-100SR-D |
| QSFP28 Bi-directional transceiver for 100GbE fiber Ports - short range (100GBase-SR1.2 BiDi), MM Fiber, LC | CPAC-TR-100SR-BiDi |
| QSFP28 transceiver module for 100GbE fiber ports - for links up to 75m (100GBASE-SWDM4),MM Fiber, LC | CPAC-TR-100SWDM4-D |
| QSFP28 transceiver module for 100GbE fiber ports - for links up to 2km (100GBASE-CWDM4), SM Fiber, LC | CPAC-TR-100CWDM4-D |
| QSFP28 transceiver module for 100GbE fiber ports, - for links up to 40km (100GBASE-ER4), SM Fiber, LC | CPAC-TR-100ERL4 |

| DIRECT ATTACH CABLES (DAC) | SKU |
|--|--------------------|
| 10GbE Direct Attach Cable (DAC), 3m length for CPAC-8-1/10F-D, CPAC-4-10/25F-D, and CPAC-2-40/100F-D | CPAC-DAC-10G-3M-D |
| 25GbE Direct Attach Cable (DAC), 3m length for CPAC-4-10/25F-D, and CPAC-2-40/100F-D | CPAC-DAC-25G-3M-D |
| 40GbE Direct Attach Cable (DAC), 3m length for CPAC-2-40/100F-D | CPAC-DAC-40G-3M-D |
| 100GbE Direct Attach Cable (DAC), 3m length for CPAC-2-40/100F-D | CPAC-DAC-100G-3M-D |

| COMPATIBLE WITH SYNC PORT INTERFACE | SKU |
|--|-------------------|
| SFP transceiver module for 1000 BASE fiber ports - short range (1000BASE-SX), MM Fiber, LC | CPAC-TR-1SX-D |
| SFP transceiver to 1000 BASE-T RJ45 (Copper), CU, RJ45 | CPAC-TR-1T-D |
| SFP+ transceiver module for 10GbE fiber ports - short range (10GBASE-SR) MM Fiber, LC | CPAC-TR-10SR-D |
| SFP+ transceiver 10GBASE-T RJ45 (Copper) - for links up to 30m over CAT6a/CAT7 | CPAC-TR-10T-D |
| 10GbE Direct Attach Cable (DAC), 3m length | CPAC-DAC-10G-3M-D |
| SFP28 transceiver module for 25GbE fiber ports - short range (25GBASE-SR) MM Fiber, LC | CPAC-TR-25SR-D |
| 25GbE Direct Attach Cable (DAC), 3m length | CPAC-DAC-25G-3M-D |

| MEMORY | SKU |
|---|---------------------|
| 64GB Memory upgrade kit for 29000 appliances | CPAC-RAM64GB-29000 |
| 128GB Memory upgrade kit for 29000 appliances | CPAC-RAM128GB-29000 |

| SPARES AND MISCELLANEOUS | SKU |
|--|-------------------|
| 960GB SSD for 19000/29000 security gateways | CPAC-SSD-960G-D |
| Replacement AC Power Supply for 19000 appliances | CPAC-PSU-AC-19000 |
| Lights-Out Management Module for 19000/29000 appliances | CPAC-NLOM-D |
| Slide rails for 19000/29000 Security Gateways (22" - 32") | CPAC-RAIL-L |
| Telescopic slide rails for 19000/29000 Security Gateways (24" - 36") | CPAC-RAIL-EXT-L |
| Blank NIC cover for 19000/29000 appliances | CPAC-NIC-COVER-D |

SUBSCRIPTION SERVICES

| | NGFW | NGTP | SNBT (SandBlast) |
|---|----------|----------|---------------------|
| Application Control | ✓ | ✓ | ✓ |
| IPS | ✓ | ✓ | ✓ |
| URL Filtering | | ✓ | ✓ |
| Anti-Bot | | ✓ | ✓ |
| Anti-Virus | | ✓ | ✓ |
| Anti-Spam | | ✓ | ✓ |
| DNS Security | | ✓ | ✓ |
| SandBlast Threat Emulation (sandboxing) | | | ✓ |
| SandBlast Threat Extraction (CDR) | | | ✓ |
| 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.

Worldwide Headquarters

5 Shlomo Kaplan Street, Tel Aviv 6789159, Israel | Tel: +972-3-753-4599

U.S. Headquarters

959 Skyway Road, Suite 300, San Carlos, CA 94070 | Tel: 1-800-429-4391

www.checkpoint.com

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