

Quantum Force 9100

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 9100 firewalls deliver up to 55 Gbps of firewall and 4.95 Gbps of threat prevention throughput with integrated AI/ML security, power efficiency and space savings in a modular 1 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

9100 Performance Highlights

Firewall	Next Gen Firewall	Threat Prevention
55 Gbps	18.6 Gbps	4.95 Gbps

AI-Powered advanced security and uncompromising performance, built for perimeter applications

Quantum Force 9100 data center firewalls deliver high threat prevention performance in a small 1 RU form factor to protect employees, networks, and data from cyber-theft. One network I/O slot can be configured to fit your network with a high port density of up to 8x1/10G or 4x10/25G 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 9100, organizations can inspect encrypted traffic and prevent even the most evasive attacks without impacting internal network performance. Achieve 4.95 Gbps of threat prevention throughput or up to 80 Gbps of UDP 1518B firewall throughput with a single 1RU firewall.

Modular, High Port Density 1RU Chassis

The 9100 offers the flexibility to fit your changing network requirements. Populate the network I/O slots with your choice of network cards: 8x1/10G, 4x10/25G.

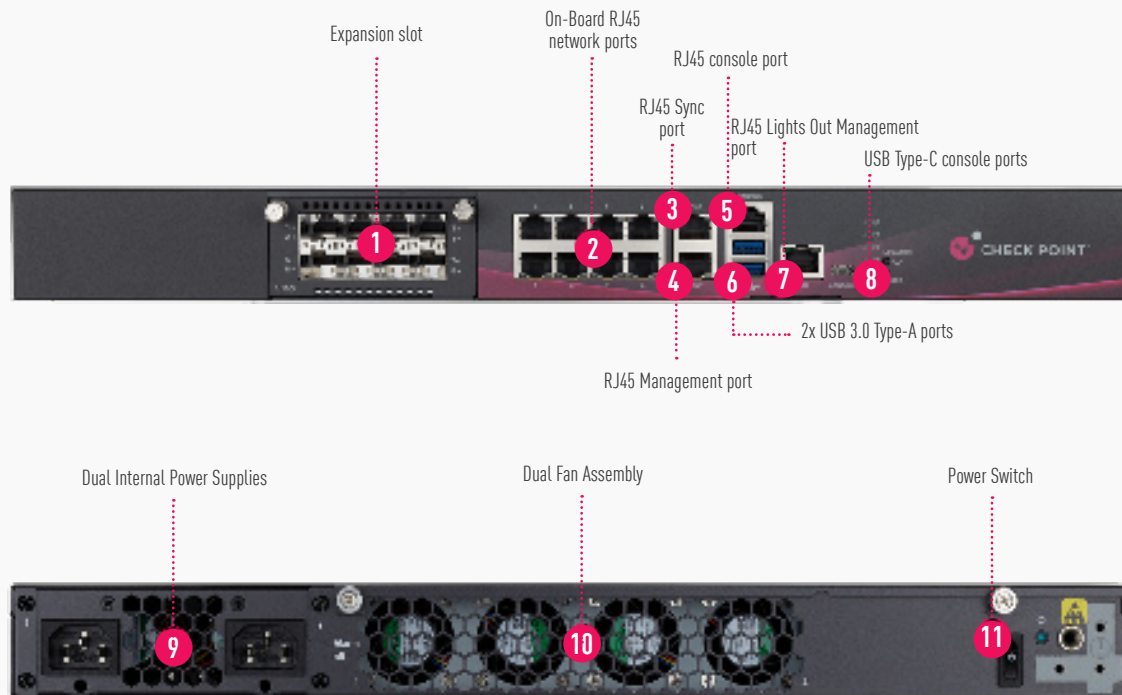


Power Efficient, Resilient Design

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.

Flexible, High Performance HTTPS Inspection

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



Specifications

Performance

Enterprise Test Conditions¹

Threat Prevention ² [Gbps]	4.95
NGFW ³ [Gbps]	18.6
IPS [Gbps]	25.7
Firewall [Gbps]	55

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

Firewall 1518B UDP [Gbps]	80
Firewall Latency (avg)	10µSec
VPN AES-GCM 1452B [Gbps]	22.1
Connections/sec	190,000
Concurrent connections (Base/Plus/Max)	2.75/7.27M/16.2M

HTTP/TLS Inspection Performance

Threat Prevention ^{1,2} [Gbps]	2.96
Threat Prevention ² web mix ⁴ [Gbps]	1.6
IPS web mix ⁴ [Gbps]	2.3

Additional Features

Highlights

- 1 CPU, 4 physical cores, 8 virtual
- Storage: 1 SSD 480GB SATA
- 2x Internal AC power supply
- 16 to 64 GB memory options
- Lights-Out-Management card – optional (included in Plus package)

Network Expansion Slot Options

- 8 x 1/10GBASE-F SFP+ port card
- 4 x 10/25GBASE-F SFP28 port card

¹ Enterprise traffic profile measured with maximum memory

² Includes Firewall, App Control, URLF, IPS, Anti Malware and SandBlast (Incl. DNS Security & Zero Phishing) with logging enabled

³ Includes Firewall, App Control and IPS with logging enabled

⁴ Web traffic mix is based on NetSecOpen web traffic profile

Network

Network Connectivity

- 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: 200W
- Power input: 100 to 240VAC (47-63Hz)
- Power consumption avg/max: 84.4W /140.8W
- Maximum thermal output AC: 480.1BTU/s

Dimensions

- Enclosure: 1RU
- Dimensions: (WxDxH): 17.2 x 20 x 1.73 in. (438 x 508 x 44mm)
- Weight: (gross; Kg): 14.8

Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95
- Storing: -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	48	24	9
Plus model	48	24	12
Max capacity	48	24	12
Maestro / MHS	48	24	12

Ordering Quantum Force 9100 Security Gateway

The 9100 includes 1x RJ45 (1 GbE copper) management port plus an additional 1x RJ45 (1 GbE copper) port for synchronization when using the 9100 PLUS in a cluster. With one network I/O slot, modify the base or plus configuration to meet your networking requirements.

	On-Board ¹ RJ45	1/10 GbE fiber	10/25** GbE Fiber	Memory	Redundant Power	Redundant Storage	LOM
Base model	10	0	0	16 GB	●	○	○
Plus model	10	8	0	32 GB	●	○	●
Max capacity	10	8	4	64 GB	●	○	●
Maestro / MHS	10	0	4	32 GB	●	○	●

¹ The RJ45 port count includes the Management & Sync ports

SECURITY APPLIANCE ¹	SKU
9100 Base configuration: 1x RJ45 (1GbE Copper) management port & 1x RJ45 (1GbE Copper) sync port, on-board 8x RJ45 ports, 16 GB RAM, 1x 480 GB SSD SATA, 2x AC PSUs, fixed rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG9100-SNBT
9100 Plus configuration: 1x RJ45 (1GbE Copper) management port & 1x RJ45 (1GbE Copper) sync port, on-board 8x RJ45 ports, 8x 1/10GbE SFP+ ports, 32 GB RAM, 1x 480 GB SSD SATA, 2x AC PSUs, Lights-Out Management (LOM), fixed rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG9100-PLUS-SNBT
Quantum Force 9100 Maestro / MHS HyperScale configuration: 1x RJ45 (1GbE Copper) management port & 1x RJ45 (1GbE Copper) sync port, on-board 8x RJ45 ports, 4x 10/25GbE SFP+ ports, 32 GB RAM, 1x 480 GB SSD SATA, 2x AC PSUs, Lights-Out Management (LOM), 2x 25GbE DAC 3M, fixed rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG9100-MHS-PLUS-SNBT
Quantum Force 9100 Maestro / MHS HyperScale configuration with 1 MHO-140 orchestrator and 2 Quantum Force 9100 appliances, each appliance includes 1x RJ45 (1GbE Copper) management port & 1x RJ45 (1GbE Copper) sync port, on-board 8x RJ45 ports, 4x 10/25GbE SFP+ ports, 32 GB RAM, 1x 480 GB SSD SATA, 2x AC PSUs, Lights-Out Management (LOM), 2x 25GbE DAC 3M, fixed rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG9102-MHS-PLUS-SNBT
Quantum Force 9100 Maestro / MHS HyperScale configuration with 1 MHO-140 orchestrator and 3 Quantum Force 9100 appliances, each appliance includes 1x RJ45 (1GbE Copper) management port & 1x RJ45 (1GbE Copper) sync port, on-board 8x RJ45 ports, 4x 10/25GbE SFP+ ports, 32 GB RAM, 1x 480 GB SSD SATA, 2x AC PSUs, Lights-Out Management (LOM), 2x 25GbE DAC 3M, fixed rails, SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG9103-MHS-PLUS-SNBT
Next Generation Threat Prevention & SandBlast package for 1 year for Quantum Force 9100 appliance	CPSB-SNBT-9100-1Y
Next Generation Threat Prevention package for 1 year for Quantum Force 9100 appliance	CPSB-NGTP-9100-1Y
Next Generation Firewall Package for 1 year for Quantum Force 9100 appliance	CPSB-NGFW-9100-1Y
Quantum IoT Network Protection for 1 year for Quantum Force 9100 appliances	CPSB-IOTTP-9100-1Y
Quantum SD-WAN subscription for 1 year for Quantum Force 9100 appliances	CPSB-SDWAN-9100-1Y
Data Loss Prevention (DLP) blade for 1 year for Quantum Force 9100 appliances	CPSB-DLP-9100-1Y

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

ACCESSORIES

INTERFACE CARDS & TRANSCEIVERS	SKU
8 Port 1/10 G Base-F SFP+ interface card for 9000/19000/29000 appliances	CPAC-8-1/10F-D
4 Port 10/25G Base-F SFP28 interface card for 9000/19000/29000 appliances	CPAC-4-10/25F-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
SFP28 transceiver module for 25GbE fiber ports - long range (25GBASE-LR), SM Fiber, LC	CPAC-TR-25LR-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

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, L	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

DIRECT ATTACH CABLES (DAC)	SKU
10GbE Direct Attach Cable (DAC), 3m length for CPAC-8-1/10F-D, CPAC-4-10/25F-D	CPAC-DAC-10G-3M-D
25GbE Direct Attach Cable (DAC), 3m length for CPAC-4-10/25F-D	CPAC-DAC-25G-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
16GB Memory upgrade kit for 9100-9400 appliances	16GB Memory upgrade kit for 9100-9400 appliances
32GB Memory upgrade kit for 9100-9400 appliances	32GB Memory upgrade kit for 9100-9400 appliances
48GB Memory upgrade kit for 9100-9400 appliances	48GB Memory upgrade kit for 9100-9400 appliances

SPARES AND MISCELLANEOUS	SKU
Lights-Out Management Module for 9000/19000/29000 appliances	CPAC-NLOM-D
Slide rails for 9000 Security Gateways (22" - 32")	CPAC-Rails-9000
Telescopic slide rails for 9000 Security Gateways (24" - 36")	CPAC-RAILS-EXT-9000
Blank NIC cover for 9000/19000/29000 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