

Quantum 28600 Hyperscale Security Gateway for Maestro





Check Point Maestro brings scale, agility and elasticity of the cloud on premise with efficient N+1 clustering based on Check Point HyperSync technology, maximizing the capabilities of your existing security gateways. Create your own virtualized private-cloud premise by stacking multiple Check Point security gateways together. Group them by security feature set, policy or the assets they protect and further virtualize them with virtual systems technology. With the Maestro Hyperscale Orchestrator and 28600 Hyperscale security gateways, businesses of all sizes can have cloud-level security on premise.



Highest Security Effectiveness

Integrated with R80 and ThreatCloud to set a new standard of prevention against advanced 5th generation cyber attacks



State-of-the-Art SSL Inspection

Threat Prevention that delivers lightning fast SSL-encrypted traffic inspection without compromising up time or scalability



850 Gbps of Gen V Performance

Hyperscale ready, high performance threat prevention hardware for the fastest Gen V security gateway in the industry

PERFORMANCE HIGHLIGHTS

Gen II Security	Gen III Security	Gen V Security	
Firewall	NGFW ¹	Threat Prevention + SandBlast ²	
145 Gbps	51.5 Gbps	30 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



SECURE YOUR EVERYTHING

HIGH PERFORMANCE, SCALABLE SECURITY

28600 Hyperscale Security Gateway Check Point 3 4 5 6 7

- 1. Sync 10/100/1000 Base-T port
- 2. RJ45 console port
- 3. 2x 100 GbE QSFP28 ports
- 4. USB Type-C console port

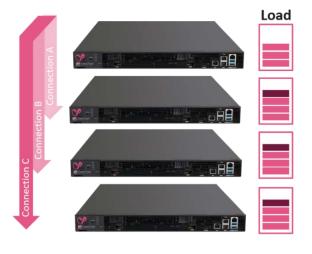
- 5. Lights-out Management port
- 6. Management 10/100/1000 Base-T port
- 7. 2x USB 3.0 ports
- 8. Redundant hot-swap power supplies

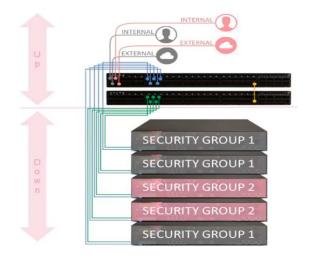
Hyperscale Security System

With Maestro, you can start with two gateways and then can grow to up to 52 gateways. For example, when you start with 30 Gbps using two 28600HS gateways you can finish with a 1.5 Tbps security solution that supports over 500 million concurrent connections. Simply by using Check Point Maestro.

Hyperscale Orchestrator Connections

When a Security Group is created, an IP address is created for a Single Management Object connection to the security management server. Easily create and assign IP addresses to the internal and external network interfaces. These uplinks are the visible components of the Maestro security solution.





Fully Operational within Minutes

When we add a gateway to the system, it gets all the configurations, the policy, even the software version, updated and aligned with the existing deployment, ready to go within 6 minutes.

Maestro Traffic Distribution

HyperSync tracks the Active/Standby/Backup state of group members. Sync traffic is limited to only the Active and Standby members handling the connection.

Cost-Efficient N+1 Deployments

Now businesses of all sizes can enjoy cloud-level resiliency and telco-grade technology using the efficient Maestro N+1 clustering design.



SECURE YOUR EVERYTHING SPECIFICATIONS

Performance

Enterprise Test Conditions		
Threat Prevention (Gbps) ¹	30	
NGFW (Gbps) ²	51.5	
IPS (Gbps)	52.5	
Firewall (Gbps)	145	

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

Firewall 1518B UDP (Gbps)	193
VPN AES-128 (Gbps)	44
Connections/sec	590,000
Concurrent connections	49M

^{1.} Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection

Additional Features

Highlights

- 2x 100 GbE QSFP28 ports
- · 2x CPUs, 36 physical cores, 72 virtual cores
- 1x 480 GB storage
- 2x AC power supplies
- 192 GB memory
- Virtual Systems: up to 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 8,000+ 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

IPv6

- NAT66
- CoreXL, SecureXL

Unicast and Multicast Routing (see SK98226)

- OSPFv2, BGP, RIP
- · Static routes, Multicast routes
- · Policy-based routing
- PIM-SM, PIM-DM, IGMP v2, and v3

Maestro

Maximums

- Up to 8 Security Groups
- Up to 31 gateways in a Security Group
- Up to 24 gateways in a Security Group (dual site deployment, 14 from each site)
- 32x 100 GbE ports (MHO 170)

Physical

Power Requirements

- Single Power Supply rating: 850W
- Power input: 100 to 240V (47-63Hz), 40~-72VDC
- Power consumption avg/max: AC341W/676W
- Maximum thermal output AC: 2306 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

with logging enabled. 2. Includes Firewall, Application Control and IPS with logging enabled

¹ factory certificate



ORDERING QUANTUM 28600HS MAESTRO SOLUTIONS

MAESTRO HYPERSCALE SOLUTION PACKAGES	SKU
Maestro Solution with 2x 28600HS gateways and 1x Orchestrator (MHO-170), includes SandBlast (SNBT) Security Subscription Package for 1 Year. Each appliance includes 2x 1GbE copper on-board, 2x 100GbE QSFP28 ports, 2x AC PSUs, 1x 480GB SSD, 192 GB RAM, telescopic rails, plus 2x 100 G DAC cables (3m, 3m). MHO-170 includes 1x 100 G DAC (3m).	CPAP-SG28602-HS-MHS-SNBT
Maestro Solution with 3x 28600HS Security Gateways and 1x Orchestrator (MHO-170), includes SandBlast (SNBT) Security Subscription Package for 1 Year. Each appliance includes 2x 1GbE copper on-board, 2x 100GbE QSFP28 ports, 2x AC PSUs, 1x 480GB SSD, 192 GB RAM, telescopic rails, plus 2x 100 G DAC cables (3m, 3m). MHO-170 includes 1x 100 G DAC (3m).	CPAP-SG28603-HS-MHS-SNBT

MAESTRO HYPERSCALE ORCHESTRATORS	SKU
Maestro Hyperscale Orchestrator 170 with 32x 100 GbE ports, plus 1x 100 G DAC cable (3m).	CPAP-MHO-170
MAESTRO HYPERSCALE ORCHESTRATORS ACCESSORIES	SKU
Fan replacement for Maestro Hyperscale Orchestrator 170	CPAC-FAN-MHO170
AC power supply unit replacement for Maestro Hyperscale Orchestrator 140 and 170	CPAC-PSU-AC-MHO140/170
Rail kit for Maestro Hyperscale Orchestrators 140 and 170	CPAC-RAIL-MHO140/170

SECURITY GATEWAY APPLIANCES FOR SCALE-UP	SKU
28600HS security gateway for Maestro, SNBT subscription for the first year. Each appliance includes 2x 1GbE copper on-board, 2x 100GbE QSFP28 ports, 2x AC PSUs, 1x 480GB SSD, 192 GB RAM, telescopic rails, plus 2x 100 G DAC cables (3m, 3m).	CPAP-SG28600-HS-MHS-SNBT
SECURITY GATEWAY ACCESSORIES	SKU
100G QSFP28 Direct Attach Copper (DAC) cable, 1 meter	CPAC-DAC-100G-1M
100G QSFP28 Direct Attach Copper (DAC) cable, 3 meters	CPAC-DAC-100G-3M
100G QSFP28 Direct Attach Copper (DAC) cable, 5 meters	CPAC-DAC-100G-5M
40G QSFP+ Direct Attach Copper (DAC) cable, 1 meter	CPAC-DAC-40G-1M
40G QSFP+ Direct Attach Copper (DAC) cable, 3 meters	CPAC-DAC-40G-3M
25G SFP28 Direct Attach Copper (DAC) cable, 1 meter	CPAC-DAC-25G-1M
25G SFP28 Direct Attach Copper (DAC) cable, 3 meters	CPAC-DAC-25G-3M
Replacement 16GB RAM memory module for 28600 and 16600 Security Gateway	CPAC-RAM16GB-16/28K-HS
Replacement 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, 26000, 28000 Security Gateways	CPAC-PSU-DC- 16000/26000/28000
Lights-Out Management Module	CPAC-LOM-C
Extended slide rails for 28600 Security Gateways (24" - 36")	CPAC-RAIL-EXT-L

TRANSCEIVERS	SKU
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



ORDERING QUANTUM 28600HS MAESTRO SOLUTIONS (continued)

All-inclusive Security

An-inclusive Security	NGFW	NGTP	SNBT (SandBlast)
	Basic access control	Prevent known threats	Prevent known and zero- day attacks
Firewall	✓	\checkmark	\checkmark
VPN (IPsec)	✓	\checkmark	✓
IPS	✓	✓	✓
Application Control	✓	\checkmark	✓
Content Awareness	✓	✓	✓
URL Filtering		✓	✓
Anti-Bot		✓	✓
Anti-Virus		✓	✓
Anti-Spam		\checkmark	✓
SandBlast Threat Emulation			✓
SandBlast Threat Extraction			✓

Each gateway requires a license for the enabled security feature. The first year purchase includes the SNBT package. Security subscription extensions, NGFW, NGTP and SNBT are available for subsequent years.