Quantum 6600 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 6600 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

185 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 Firewall	Gen III Security NGFW[1]	Gen V Security Threat Prevention + SandBlast[2]
18 Gbps	6.2 Gbps	3.7 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

HIGH PERFORMANCE, SCALABLE SECURITY

6600 SECURITY GATEWAY
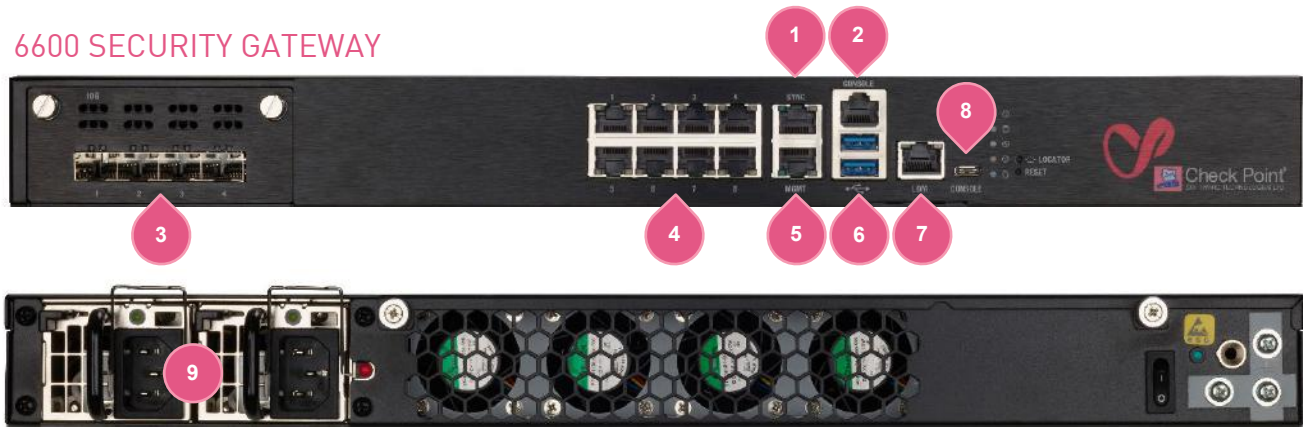
1. Sync 10/100/1000 Base-T port
2. RJ45 console port
3. 1 network expansion slot
4. 8x 10/100/1000 Base-T ports
5. Management 10/100/1000 Base-T port
6. 2x USB 3.0 ports
7. Lights-out Management port
8. USB Type-C console port
9. Redundant hot-swap power supplies

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 7.4 Gbps using two 6600HS gateways you can finish with a 185 Gbps security solution. 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.
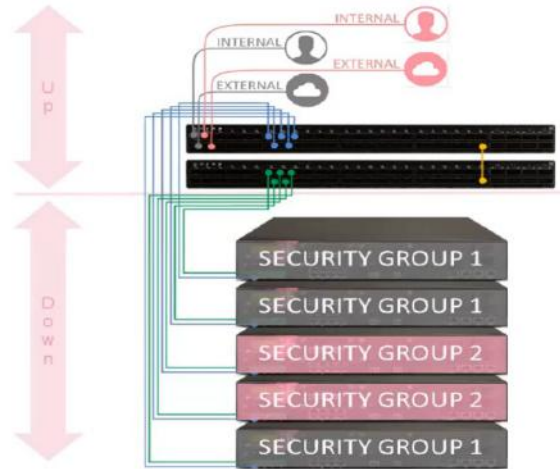
Fully Operational within Minutes

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.

SPECIFICATIONS

Performance

Enterprise Test Conditions

Threat Prevention (Gbps)[1]	3.7
NGFW (Gbps)[2]	6.2
IPS (Gbps)	10.14
Firewall (Gbps)	18

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

Firewall 1518B UDP (Gbps)	32
VPN AES-128 (Gbps)	4.9
Connections/sec	116,000
Concurrent connections	2/4/8M

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

- 4x 10 GbE SFP+ ports
- 1x CPU, 6 physical cores
- 1x 240 GB SSDs
- 2x AC power supplies
- 16 GB memory
- Virtual Systems (Plus/max mem): 20/20

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)
- 48x 10 GbE and 8x 100 GbE ports (MHO 140)

Physical

Power Requirements

- Single Power Supply rating: 300W
- AC power input: 100 to 240V (47-63Hz)
- Power consumption avg/max: 84W/122W
- Maximum thermal output: 416 BTU/hr.

Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.2 x 20 x 1.73 in. (438 x 508 x 44mm)
- Weight: 17.4 lbs. (9 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, REACH[1], ISO14001[1]

[1] factory certificate

ORDERING QUANTUM 6600HS MAESTRO SOLUTIONS

MAESTRO HYPERSCALE SOLUTION PACKAGES	SKU
Maestro Solution with two 6600 firewalls with SandBlast subscription package for 1 year and one Orchestrator (MHO-140). Each appliance includes 16 GB RAM, 10x 1GbE copper, 4x 10GbE SFP+ ports, 2x AC PSUs, 1x 240 GB SSD, LOM, telescopic rails, plus 2x 10G DAC cables (1m, 3m). MHO-140 includes 1x 10G DAC (3m).	CPAP-MHS-6602-PLUS-SNBT
Maestro Solution with three 6600 firewalls with SandBlast subscription package for 1 year and one Orchestrator (MHO-140). Each appliance includes 16 GB RAM, 10x 1GbE copper, 4x 10GbE SFP+ ports, 2x AC PSUs, 1x 240 GB SSD, LOM, telescopic rails, plus 2x 10G DAC cables (1m, 3m). MHO-140 includes 1x 10G DAC (3m).	CPAP-MHS-6603-PLUS-SNBT

SECURITY GATEWAY APPLIANCES FOR SCALE-UP	SKU
6600 security gateway for Maestro including 16 GB RAM, 10x 1GbE copper, 4x 10GbE SFP+ ports, 2x AC PSUs, 1x 240 GB SSD, LOM, plus 2x 10G DAC cables (1m, 3m) with SandBlast subscription package for 1 year.	CPAP-SG6600-PLUS-MHS-SNBT
SECURITY GATEWAY ACCESSORIES	**SKU**
Direct Attach Copper (DAC) cables 10GbE SFP+ to SFP+, 1M	CPAC-DAC-10G-1M
Direct Attach Copper (DAC) cables 10GbE SFP+ to SFP+, 3M	CPAC-DAC-10G-3M
Memory upgrade kit from 16GB to 32GB for 6600 appliance	CPAC-RAM16GB-6600
Replacement AC power supply for 6600 Security Gateways	CPAC-PSU-AC-6600/6700/6900
Additional/Replacement DC Power Supply for 6600, 6700, 6900 appliances	CPAC-PSU-DC-6600/6700/6900
Lights-Out Management Module	CPAC-LOM-C
Extended slide rails for 6600 Security Gateways (24" - 36")	CPAC-RAILS-EXT-6000/6600

MAESTRO HYPERSCALE ORCHESTRATOR	SKU
Maestro Hyperscale Orchestrator 140 with 8x 100 GbE and 48x 10 GbE ports, plus 1x 10G DAC (3m).	CPAP-MHO-140
MAESTRO HYPERSCALE ORCHESTRATOR ACCESSORIES	**SKU**
Fan replacement for Maestro Hyperscale Orchestrator 140	CPAC-FAN-MHO140
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
MHO-140 TRANSCEIVERS	**SKU**
100G CWDM4, LC connector, 2Km/ single mode fiber	CPAC-TR-100CWDM4
100G SWDM4, LC connector, 75m/OM3 fiber	CPAC-TR-100SWDM4
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	CPAC-TR-40SR-QSFP-300m
QSFP+ transceiver module for 40G fiber ports - long range (40GBase-LR) CPAC-TR-40LR-QSFP-10Km	CPAC-TR-40LR-QSFP-10Km
Bi-directional QSFP transceiver for 40G fiber Ports - short range (40GBase-SR-BD) CPAC-TR-40SR-QSFP-BiDi	CPAC-TR-40SR-QSFP-BIDI
QSFP+ splitter for 40G fiber ports for Maestro (MHO140 and MHO170) – 3 meters	CPAC-TR-40SPLIT-QSFP-3M
QSFP+ splitter for 40G fiber ports for Maestro (MHO140 and MHO170) – 6 meters	CPAC-TR-40SPLIT-QSFP-6M
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR-C
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR-C
SFP+ transceiver 10GBASE-T RJ45 (Copper) - for links up to 30m over CAT6a/CAT7	CPAC-TR-10T-C
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX-C
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX-C
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T-C

ORDERING MAESTRO SOLUTIONS (Continued)

All-inclusive Security

	NGFW	NGTP	SNBT (SandBlast)
	Basic access control with IPS	Prevent known threats	Prevent known and zero-day attacks
Firewall	✓	✓	✓
VPN (IPsec)	✓	✓	✓
Application Control	✓	✓	✓
Content Awareness	✓	✓	✓
IPS	✓	✓	✓
URL Filtering		✓	✓
Anti-Bot		✓	✓
Anti-Virus		✓	✓
Anti-Spam		✓	✓
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.