



# QUANTUM™ SECURITY GATEWAYS COMPARISON CHART

YOU DESERVE THE BEST SECURITY

	19100	19200	291000	29200
<b>Data Center</b>				
<b>Enterprise Testing Conditions</b>				
Threat Prevention (Gbps) <sup>1</sup>	28.8	36.9	47.4	63.5
NGFW Throughput (Gbps) <sup>2</sup>	90	100	130	165
IPS Throughput (Gbps)	130	145	175	235
Firewall (Gbps)	200	245	365	500
<b>RFC 3511, 2544, 2647, 1242 Performance (Lab)</b>				
Firewall Throughput (Gbps)	800	800	1,400	1,400
Firewall Latency (avg)	1.85µSec	1.85µSec	1.85µSec	1.85µSec
VPN Throughput (Gbps)	75.3	86	103	130
Connections Per Second (K)	750,000	1,000,000	1,250,000	1,500,000
Concurrent Sessions (B/P/M) <sup>3</sup>	12.4M/20M/31M <sup>3</sup>	21/31/31M <sup>3</sup>	30/48/67M <sup>3</sup>	30/48/67M <sup>3</sup>
<b>HTTP/TLS Inspection Performance</b>				
Threat Prevention <sup>2</sup> [Gbps]	14.1	18.6	24.3	24.6
Threat Prevention <sup>2</sup> web mix <sup>4</sup> [Gbps]	10.2	11.2	14.6	18.6
IPS web mix <sup>4</sup> [Gbps]	12.9	15.7	19.3	25
<b>Additional Features</b>				
CPUs/physical cores/virtual cores <sup>5</sup>	2/32/64	2/40/80	2/56/112	2/64/128
Storage Size (NVMe)	960 GB	960 GB	960 GB	960 GB
Maestro Scalability (NGTP Gbps)	up to 432	up to 553.5	up to 711	up to 952.5
<b>Physical</b>				
Enclosure	2U	2U	2U	2U

	19100			19200			291000			29200		
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
Network I/O Expansion Slots	4			4			7			7		
1/10 GbE Copper (On-Board)	2	2	2	2	2	2	2	2	2	2	2	2
1/10 GbE Fiber	8	8	32	8	8	32	8	16	56	8	16	56
10/25 GbE	0	4	16	0	4	16	0	4	28	0	4	28
40/100 GbE	0	0	8	0	0	8	0	0	14	0	2	14
<b>Accessories</b>												
Memory (GB)	64	96	128	96	128	128	128	192	256	128	192	256
Redundant Storage	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
Redundant Power	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LOM	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
<b>Virtual Systems</b>												
Maximums with default memory-FW	300	300	300	300	300	300	300	300	300	300	300	300
Maximums with default memory-FW+IPS	160	160	160	160	160	160	160	160	160	160	160	160
Maximums with default memory-Next Gen Threat Prevention	62	80	80	62	80	80	84	126	128	84	126	128

OPT. optional

**Base, Plus, Max:** Base is a minimum hardware configuration. Plus includes redundant components, additional memory and network I/O for less than purchasing these items separately. Max is the maximum capacity that the security appliance supports.

<sup>1</sup> Check Point proprietary blend which Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast (Incl. DNS Security & Zero Phishing).

<sup>2</sup> Check Point proprietary blend which Includes Firewall, Application Control, IPS.

<sup>3</sup> Performance measured with default/maximum memory.

<sup>4</sup> Web mix is based on NetSecOpen Standard

<sup>5</sup> Per Gateway.

	9400	9700	9800
	Perimeter	Perimeter / Data Center	
<b>Enterprise Testing Conditions</b>			
Threat Prevention (Gbps) <sup>1</sup>	11	16.6	20
NGFW Throughput (Gbps) <sup>2</sup>	33.3	57.6	67.7
IPS Throughput (Gbps)	46.4	73.7	90.5
Firewall (Gbps)	72.6	129	185
<b>RFC 3511, 2544, 2647, 1242 Performance (Lab)</b>			
Firewall Throughput (Gbps)	200	400	400
Firewall Latency (avg)	1.85µSec	1.85µSec	1.85µSec
VPN Throughput (Gbps)	40	75	75
Connections Per Second (K)	355,000	535,000	715,000
Concurrent Sessions (B/P/M) <sup>3</sup>	2.75M/7.27M/16.2M <sup>3</sup>	6.5M/15M/29M <sup>3</sup>	7M/15M/29M <sup>3</sup>
<b>HTTP/TLS Inspection Performance</b>			
Threat Prevention <sup>1, 2</sup> [Gbps]	5.5	9.6	10.1
Threat Prevention <sup>2</sup> web mix <sup>4</sup> [Gbps]	3.2	5.8	6
IPS web mix <sup>4</sup> [Gbps]	4	7.3	7.9
<b>Additional Features</b>			
CPUs/physical cores/virtual cores <sup>5</sup>	1/14/20	1/16/32	1/20/40
Storage Size (NVMe)	480 GB	960 GB	960 GB
Maestro Scalability (NGTP Gbps)	up to 165	up to 249	up to 300
<b>Physical</b>			
Enclosure	1U	1U	1U

	9400			9700			9800		
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
<b>Network I/O Expansion Slots</b>	1			2			2		
1 GbE Copper (On-Board)	10	10	10	6	6	6	6	6	6
1/10 GbE Fiber	4	12	12	4	12	20	4	12	20
10/25 GbE	0	0	4	0	0	8	0	0	8
40/100 GbE	0	0	2	0	0	4	0	0	4
<b>Accessories</b>									
Memory (GB)	16	32	64	32	64	128	32	64	128
Redundant Storage	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
Redundant Power	✓	✓	✓	✓	✓	✓	✓	✓	✓
LOM	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
<b>Virtual Systems</b>									
Maximums with default memory-FW	53	64	64	106	128	128	106	160	160
Maximums with default memory-FW+IPS	28	32	32	60	64	64	60	80	80
Maximums with default memory-Next Gen Threat Prevention	9	16	16	20	32	32	20	40	40

OPT. optional

**Base, Plus, Max:** Base is a minimum hardware configuration. Plus includes redundant components, additional memory and network I/O for less than purchasing these items separately. Max is the maximum capacity that the security appliance supports.

<sup>1</sup> Check Point proprietary blend which Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast (Incl. DNS Security & Zero Phishing).

<sup>2</sup> Check Point proprietary blend which Includes Firewall, Application Control, IPS.

<sup>3</sup> Performance measured with default/maximum memory.

<sup>4</sup> Web mix is based on NetSecOpen Standard

<sup>5</sup> Per Gateway.

	9100	9200	9300
<b>Perimeter</b>			
<b>Enterprise Testing Conditions</b>			
Threat Prevention (Gbps) <sup>1</sup>	4.95	6.6	9
NGFW Throughput (Gbps) <sup>2</sup>	18.6	19	28.2
IPS Throughput (Gbps)	25.7	31	39
Firewall (Gbps)	55	60	70
<b>RFC 3511, 2544, 2647, 1242 Performance (Lab)</b>			
Firewall Throughput (Gbps)	80	80	80.2
Firewall Latency (avg)	10μSec	9μSec	9μSec
VPN Throughput (Gbps)	22.1	28.6	33
Connections Per Second (K)	190,000	250,000	300,000
Concurrent Sessions (B/P/M) <sup>3</sup>	2.7M/7.27M/16.2M <sup>3</sup>	2.7M/7.27M/16.2M <sup>3</sup>	2.7M/7.27M/16.2M <sup>3</sup>
<b>HTTP/TLS Inspection Performance</b>			
Threat Prevention <sup>1, 2</sup> [Gbps]	2.3	2.9	3.9
Threat Prevention <sup>2</sup> web mix <sup>4</sup> [Gbps]	1.6	2	2.9
IPS web mix <sup>4</sup> [Gbps]	2.9	3.6	5.1
<b>Additional Features</b>			
CPUs/physical cores/virtual cores <sup>5</sup>	1/4/8	1/4/8	1/10/16
Storage Size (NVMe)	480 GB	480 GB	480 GB
Maestro Scalability (NGTP Gbps)	up to 74.25	up to 99	up to 135
<b>Physical</b>			
Enclosure	1U	1U	1U

	9100			9200			9300		
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
<b>Network I/O Expansion Slots</b>	1			1			1		
1 GbE Copper (On-Board)	10	10	10	10	10	10	10	10	10
1/10 GbE Fiber	0	8	8	0	8	8	0	8	8
10/25 GbE	0	0	4	0	0	4	0	0	4
40/100 GbE	0	0	0	0	0	0	0	0	0
<b>Accessories</b>									
Memory (GB)	16	32	64	16	32	64	16	32	64
Redundant Storage	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
Redundant Power	✓	✓	✓	✓	✓	✓	✓	✓	✓
LOM	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
<b>Virtual Systems</b>									
Maximums with default memory-FW	48	48	48	48	48	48	48	48	48
Maximums with default memory-FW+IPS	24	24	24	24	24	24	24	24	24
Maximums with default memory-Next Gen Threat Prevention	9	12	12	9	12	12	9	12	12

OPT. optional

**Base, Plus, Max:** Base is a minimum hardware configuration. Plus includes redundant components, additional memory and network I/O for less than purchasing these items separately. Max is the maximum capacity that the security appliance supports.

<sup>1</sup> Check Point proprietary blend which Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast (Incl. DNS Security & Zero Phishing).

<sup>2</sup> Check Point proprietary blend which Includes Firewall, Application Control, IPS.

<sup>3</sup> Performance measured with default/maximum memory.

<sup>4</sup> Web mix is based on NetSecOpen Standard

<sup>5</sup> Per Gateway.

	1900	2000
SMB and Small Branch Office		
<b>Enterprise Testing Conditions*</b>		
Threat Prevention (Gbps) <sup>1</sup>	4 Gbps	5 Gbps
NGFW Throughput (Gbps) <sup>2</sup>	8 Gbps	10 Gbps
IPS Throughput (Gbps)	9 Gbps	11 Gbps
Firewall (Gbps)	20 Gbps	20 Gbps
<b>Ideal Testing Conditions</b>		
Firewall Throughput (Gbps)	40 Gbps	40 Gbps
VPN Throughput (Gbps)	5 Gbps	6 Gbps
Connections Per Second (K)	90,000	100,000
Concurrent Sessions (M) <sup>3</sup>	4,200,000	4,200,000
<b>Physical and Networking</b>		
Enclosure	1RU	
1 GbE Copper	16	
1 GbE Fiber	-	
2.5 GbE Copper	2	
10 GbE Fiber	4	
Console	1x USB-C or RJ45	
USB ports	2x USB 3.0	
SD Card Slot	32 and 64 GB card options	

1. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast Zero-Day Protection with logging.

2. Includes Firewall, Application Control, IPS with logging

3. Performance measured with default/maximum memory.



	1535	1555	1575	1595	1600	1800
<b>SMB and Small Branch Office</b>						
<b>Enterprise Testing Conditions*</b>						
Threat Prevention (Gbps) <sup>1</sup>	440 Mbps <sup>4</sup>	600 Mbps <sup>4</sup>	650 Mbps <sup>4</sup>	900 Mbps <sup>4</sup>	1,500 Mbps	2,000 Mbps
NGFW Throughput (Gbps) <sup>2</sup>	600 Mbps	800 Mbps	970 Mbps	1,300 Mbps	3,200 Mbps	5,000 Mbps
IPS Throughput (Gbps)	670 Mbps	900 Mbps	1,050 Mbps	1,400 Mbps	3,500 Mbps	5,500 Mbps
Firewall (Gbps)	1,000 Mbps	1,000 Mbps	2,800 Mbps	2,800 Mbps	4,800 Mbps	7,500 Mbps
<b>Ideal Testing Conditions</b>						
Firewall Throughput (Gbps)	2,000 Mbps	2,000 Mbps	6,400 Mbps	6,400 Mbps	8,000 Mbps	17,000 Mbps
VPN Throughput (Gbps)	970 Mbps	1,300 Mbps	1,950 Mbps	2,600 Mbps	3,200 Mbps	4,000 Mbps
Connections Per Second (K)	10,500	14,000	15,750	21,000	55,000	66,000
Concurrent Sessions (M) <sup>3</sup>	1,000,000	1,000,000	1,000,000	1,000,000	2,400,000	2,400,000
<b>Additional Features</b>						
WiFi	Wi-Fi 6, 2x2	Wi-Fi 6 2x2	Wi-Fi 6 4x4	Wi-Fi 6 4x4	NA	NA
Cellular	N/A	NA	LTE/4G	5G	NA	NA
<b>Physical and Networking</b>						
Enclosure	Desktop		Desktop		1RU	
1 GbE Copper	6		10		18	17
1 GbE Fiber	N/A		1 SFP		2	1
2.5 GbE	N/A		N/A		N/A	2
10 GbE	N/A		N/A		N/A	1
Console	1x USB-C		1x USB-C		1x USB-C and 1x RJ-45 console port	
USB ports	1x USB 3.0		USB1x USB 3.0		2x USB 3.0	
SD Card Slot	N/A		Micro-SD slot		Micro-SD slot with 32 and 64 GB card options	

1. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast Zero-Day Protection with logging.

2. Includes Firewall, Application Control, IPS with logging

3. Performance measured with default/maximum memory.

4. Figures measured with Smart Accel enabled. Smart Accel is available on release R81.10 and above. Smart Accel must be enabled on Web UI and is currently supported on devices managed via Web UI or SMP

	3600	3800	6200			6400			6600			6700			6900		
	Branch Office			Small to Mid-Enterprise													
<b>Enterprise Testing Conditions</b>																	
Threat Prevention (Gbps) <sup>1</sup>	780 Mbps	1.5	1.8	2.5	3.7	5.8	7.4										
NGFW Throughput (Gbps) <sup>2</sup>	1.5	3	3.72	5.5	6.2	13.4	17										
IPS Throughput (Gbps)	1.99	3.3	4.65	6.5	10.14	19	19										
Firewall (Gbps)	3.3	3.6	9	12	18	26	37										
<b>Ideal Testing Conditions</b>																	
Firewall Throughput (Gbps)	4	4	17.55	30	32	38	63										
VPN Throughput (Gbps)	2.71	2.75	2.57	2.73	4.9	4.61	9.81										
Connections Per Second (K)	32	60	67	90	116	164	230										
Concurrent Sessions (M) <sup>3</sup>	2	4	2/8	4/8	2/8	2/8	4/16										
<b>Additional Features</b>																	
CPUs/physical cores/virtual cores	1/4/4	1/8/8	1/2/4	1/4/4	1/6/6	1/6/12	1/8/16										
SSD Size	240 GB	240 GB	240 GB	240 GB	240 GB	480 GB	480 GB										
Maestro Scalability (NGTP Gbps)	-	-	up to 90	up to 125	up to 185	up to 290	up to 370										
<b>Physical</b>																	
Enclosure	Desktop	Desktop	1U			1U			1U			1U			1U		
<b>Appliance Configurations</b>																	
			Base	Plus	Max	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
<b>Network I/O Expansion Slots</b>			1			1			1			1			2		
1 GbE Copper	6	6	10	10	18	10	10	18	10	10	18	10	10	18	10	10	26
1 GbE Fiber	-	-	0	4	4	0	4	4	0	0	4	0	0	4	0	0	8
10 GbE	-	-	0	0	4	0	0	4	0	4	4	0	4	4	0	4	8
100/40/25/10 GbE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	2
<b>Accessories</b>																	
Memory	8	16	8	16	32	8	16	32	8	16	32	8	16	32	16	32	64
Redundant Power	Opt.	Opt.	-	ü	ü	ü	ü	ü	Opt.	ü	ü	Opt.	ü	ü	Opt.	ü	ü
LOM	-	-	Opt.	ü	ü	Opt.	ü	ü	Opt.	ü	ü	Opt.	ü	ü	Opt.	ü	ü
<b>Virtual Systems</b>																	
Maximums with default memory	5	10	10	20	20	10	20	20	10	20	20	10	20	20	10	20	20

Opt. optional

Base, Plus, Max: Base is a minimum hardware configuration. Plus includes redundant components, additional memory and network I/O for less than purchasing these items separately. Max is the maximum capacity that the security appliance supports.

<sup>1</sup> Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast.

<sup>2</sup> Includes Firewall, Application Control, IPS.

<sup>3</sup> Performance measured with default/maximum memory.

	7000			16200			16600			26000			28000			28600		
	Large Enterprise						Data Center											
<b>Enterprise Testing Conditions</b>																		
Threat Prevention (Gbps) <sup>1</sup>	9.5			15			17.6			24			30			30		
NGFW Throughput (Gbps) <sup>2</sup>	22			27			30			40.5			51.5			51.5		
IPS Throughput (Gbps)	25			35			42			43			52.2			52.2		
Firewall (Gbps)	48			78.3			87			106.2			145			145		
<b>Ideal Testing Conditions</b>																		
Firewall Throughput (Gbps)	76.8			159			117			316.5			316.5			193		
VPN Throughput (Gbps)	11.9			20			17			40.1			49			44		
Connections Per Second (K)	330			435			375			550			615			590		
Concurrent Sessions (M) <sup>3</sup>	4/16			8/32			32			10/32			10/32			49		
<b>Additional Features</b>																		
CPUs/physical cores/virtual cores	1/16/32			2/24/48			2/24/48			2/36/72			2/36/72			2/36/72		
SSD Size	480 GB			480 GB			480 GB			480 GB			480 GB			480 GB		
Maestro Scalability (NGTP Gbps)	up to 475			up to 750			up to 880			up to 1,200			up to 1,500			up to 1,500		
<b>Physical</b>																		
Enclosure	1U			2U			1U			3U			3U			1U		
<b>Appliance Configurations</b>	<b>Base</b>	<b>Plus</b>	<b>Max</b>	<b>Base</b>	<b>Plus</b>	<b>Max</b>	<b>Base</b>	<b>Plus</b>	<b>Max</b>	<b>Base</b>	<b>Plus</b>	<b>Max</b>	<b>Base</b>	<b>Plus</b>	<b>Max</b>	<b>Base</b>		
<b>Network I/O Expansion Slots</b>	2			4			-			8			8			-		
1 GbE Copper	10	10	26	10	10	34	2	10	10	66	2	10	66	2	10	66		
1 GbE Fiber	0	0	8	0	0	16	-	0	0	32	0	0	32	0	0	32		
10 GbE	0	4	8	0	8	16	-	0	12	32	4	12	32	4	12	32		
100/40/25/10 GbE	0	0	2	0	0	4	2	0	0	8	0	2	8	0	2	8		
<b>Accessories</b>																		
Memory	16	32	64	48	64	128	128	48	96	128	64	96	128	64	96	128		
Redundant Storage	Opt.	✓	✓	Opt.	✓	✓	-	Opt.	✓	✓	Opt.	✓	✓	Opt.	✓	✓		
Redundant Power	Opt.	✓	✓	Opt.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
LOM	Opt.	✓	✓	Opt.	✓	✓	✓	Opt.	✓	✓	Opt.	✓	✓	Opt.	✓	✓		
<b>Virtual Systems</b>																		
Maximums with default memory	10	30	50	60	250	250	250	125	250	250	125	250	250	125	250	250		

OPT. optional

Base, Plus, Max: Base is a minimum hardware configuration. Plus includes redundant components, additional memory and network I/O for less than purchasing these items separately. Max is the maximum capacity that the security appliance supports.

<sup>1</sup> Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast.

<sup>2</sup> Includes Firewall, Application Control, IPS.

<sup>3</sup> Performance measured with default/maximum memory.

	NGFW Basic access control with IPS	NGTP Prevent known threats	SandBlast Prevent zero-day threats
<b>Security Gateway Feature Sets</b>			
Firewall	✓	✓	✓
IPsec VPN	✓	✓	✓
Mobile Access	✓	✓	✓
Advanced Networking & Clustering	✓	✓	✓
Identity Awareness	✓	✓	✓
Application Control	✓	✓	✓
Content Awareness	✓	✓	✓
IPS	✓	✓	✓
URL Filtering		✓	✓
Antivirus		✓	✓
Anti-Spam		✓	✓
Anti-Bot		✓	✓
DNS Security		✓	✓
SandBlast Threat Emulation			✓
SandBlast Threat Extraction			✓
Zero Phishing			✓
DLP	Optional	Optional	Optional
IoT Network protection for SMBs*			✓
SD-WAN network optimization for SMBs*	✓	✓	✓
IoT Protect	Optional	Optional	Optional
SD-WAN network optimization for enterprises**	Optional	Optional	Optional
<b>Security Management Feature Sets</b>			
Network Policy Management	✓	✓	✓
Logging & Status	✓	✓	✓

Optional security capabilities can be ordered a-la-carte or separately

\* Starting from release R81.10.10. Managed via local Web UI and Spark Management.

\*\* Supported on Smart-1 only

**Mobile Access:**

The 28000, 26000, 16000, 7000, 6000, 3000 include 5 users in the default package and this can be extended using Mobile Access extensions

**Optional Security Management software features available, but not shown include:**

SmartEvent, Compliance, SmartProvisioning, Endpoint Policy Management