



QUANTUM™ SECURITY GATEWAYS COMPARISON CHART

YOU DESERVE THE BEST SECURITY

	19100	19200	29100	29200
Data Center				
Enterprise Testing Conditions				
Threat Prevention (Gbps) ¹	35	44	60	75
NGFW Throughput (Gbps) ²	90	100	130	165
IPS Throughput (Gbps)	130	145	175	235
Firewall (Gbps)	200	245	365	500
RFC 3511, 2544, 2647, 1242 Performance (Lab)				
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	750,000	1,000,000	1,250,000	1,500,000
Concurrent Sessions (B/P/M) ³	12.4M/20M/31M ³	21/31/31M ³	30/48/67M ³	30/48/67M ³
HTTP/TLS Inspection Performance				
Threat Prevention ¹² [Gbps]	14.1	18.6	24.3	24.6
Threat Prevention ³ web mix ⁴ [Gbps]	10.2	11.2	14.6	18.6
IPS web mix ⁴ [Gbps]	12.9	15.7	19.3	25
Additional Features				
CPUs/physical cores/virtual cores ⁵	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
Physical				
Enclosure	2U	2U	2U	2U

	19100			19200			29100			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
Accessories												
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.	✓	✓
Virtual Systems												
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	112	112	84	126	128

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.

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

² Check Point proprietary blend which Includes Firewall, Application Control, IPS.

³ Performance measured with default/maximum memory.

⁴ Web mix is based on NetSecOpen Standard

⁵ Per Gateway.

	9400	9700	9800
	Perimeter	Perimeter / Data Center	
Enterprise Testing Conditions			
Threat Prevention (Gbps) ¹	14	20	25
NGFW Throughput (Gbps) ²	33.3	57.6	67.7
IPS Throughput (Gbps)	46.4	73.7	90.5
Firewall (Gbps)	72.6	129	185
RFC 3511, 2544, 2647, 1242 Performance (Lab)			
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) ³	2.75M/7.27M/16.2M ³	6.5M/15M/29M ³	7M/15M/29M ³
HTTP/TLS Inspection Performance			
Threat Prevention ^{1, 2} [Gbps]	5.5	9.6	10.1
Threat Prevention ² web mix ⁴ [Gbps]	3.2	5.8	6
IPS web mix ⁴ [Gbps]	4	7.3	7.9
Additional Features			
CPUs/physical cores/virtual cores ⁵	1/14/20	1/16/32	1/20/40
Storage Size	960 GB (SSD)	960 GB (NVMe)	960 GB (NVMe)
Maestro Scalability (NGTP Gbps)	up to 165	up to 249	up to 300
Physical			
Enclosure	1U	1U	1U

	9400			9700			9800		
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
Network I/O Expansion Slots	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
Accessories									
Memory (GB)	16	32	64	32	64	128	32	64	128
Redundant Storage	-	-	-	OPT.	✓	✓	OPT.	✓	✓
Redundant Power	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
LOM	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
Virtual Systems									
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

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.

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

² Check Point proprietary blend which Includes Firewall, Application Control, IPS.

³ Performance measured with default/maximum memory.

⁴ Web mix is based on NetSecOpen Standard

⁵ Per Gateway.

	9100	9200	9300
Perimeter			
Enterprise Testing Conditions			
Threat Prevention (Gbps) ¹	6.5	8	10.5
NGFW Throughput (Gbps) ²	18.6	19	28.2
IPS Throughput (Gbps)	25.7	31	39
Firewall (Gbps)	55	60	70
RFC 3511, 2544, 2647, 1242 Performance (Lab)			
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) ³	2.75M/7.27M/16.2M ³	2.75M/7.27M/16.2M ³	2.75M/7.27M/16.2M ³
HTTP/TLS Inspection Performance			
Threat Prevention ^{1, 2} [Gbps]	2.96	3.6	5.1
Threat Prevention ² web mix ⁴ [Gbps]	1.6	2	2.9
IPS web mix ⁴ [Gbps]	2.3	2.9	3.9
Additional Features			
CPUs/physical cores/virtual cores ⁵	1/4/8	1/4/8	1/10/16
Storage Size	480 GB (SSD)	480 GB (SSD)	480 GB (SSD)
Maestro Scalability (NGTP Gbps)	up to 74.25	up to 99	up to 135
Physical			
Enclosure	1U	1U	1U

	9100			9200			9300		
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
Network I/O Expansion Slots	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
Accessories									
Memory (GB)	16	32	64	16	32	64	16	32	64
Redundant Storage	-	-	-	-	-	-	-	-	-
Redundant Power	✓	✓	✓	✓	✓	✓	OPT.	✓	✓
LOM	OPT.	✓	✓	OPT.	✓	✓	OPT.	✓	✓
Virtual Systems									
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

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.

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

² Check Point proprietary blend which Includes Firewall, Application Control, IPS.

³ Performance measured with default/maximum memory.

⁴ Web mix is based on NetSecOpen Standard

⁵ Per Gateway.

	3920	3950	3970	3980
Enterprise Testing Conditions				
Threat Prevention (Gbps) ¹	3.2	5.5	4.25	7
NGFW Throughput (Gbps) ²	7.8	16.2	12.5	20
IPS Throughput (Gbps)	11.5	20	17	28.5
Firewall (Gbps)	20		40	
RFC 3511, 2544, 2647, 1242 Performance (Lab)				
Firewall Throughput (Gbps)	20		40	
Firewall Latency avg. (µSec)	27	13	19	12
VPN Throughput (Gbps)	9.5	17.5	13	23
Connections Per Second (K)	95	130	140	195
Concurrent Sessions (M) ³	2.75	7.2		
HTTP/TLS Inspection Performance				
Threat Prevention ^{1, 2} [Gbps]	0.95	1.75	1.4	2.1
Threat Prevention ² web mix ⁴ [Gbps]	0.6	1.1	0.85	1.25
IPS web mix ⁴ [Gbps]	0.8	1.4	1.15	1.65
Additional Features				
CPUs/physical cores	1 CPU, 6 Physical Cores	1 CPU, 8 Physical Cores		
Storage Size	480 GB SSD NVME M.2			
Physical				
Enclosure	Desktop		1U	

3920		3950		3970		3980	
Appliance Configurations							
Port Location	Rear		Front				
1 GbE Copper	8		8		16		
2.5 GbE Copper	-		2		2		
10 GbE Copper	-		2		-		
1 GbE SFP	1		-		8		
10 GbE SFP+	2		-		4		
Console	USB Type C		RJ-45 & USB Type C				
USB 3.0 Type A	1				2		
Accessories							
Memory (GB)	16		32				
Redundant Power	Dual (External)				Dual (internal)		
LOM	NO						
Virtual Systems (#of VS's)							
Firewall VS	17		28				
Firewall + IPS VS	10		14				
Next Gen. Threat Prevention VS	5		7				

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

²Check Point proprietary blend which Includes Firewall, Application Control, IPS.

³Performance measured with default/maximum memory.

⁴Web mix is based on NetSecOpen Standard

	1900	2000
SMB and Small Branch Office		
Enterprise Testing Conditions*		
Threat Prevention (Gbps) ¹	4 Gbps	5 Gbps
NGFW Throughput (Gbps) ²	8 Gbps	10 Gbps
IPS Throughput (Gbps)	9 Gbps	11 Gbps
Firewall (Gbps)	20 Gbps	20 Gbps
Ideal Testing Conditions		
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) ³	4,200,000	4,200,000
Physical and Networking		
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	

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

²Includes Firewall, Application Control, IPS with logging

³Performance measured with default/maximum memory.

	1535	1555	1575	1595	1600	1800
SMB and Small Branch Office						
Enterprise Testing Conditions*						
Threat Prevention (Gbps) ¹	440 Mbps ⁴	600 Mbps ⁴	650 Mbps ⁴	900 Mbps ⁴	1,500 Mbps	2,000 Mbps
NGFW Throughput (Gbps) ²	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
Ideal Testing Conditions						
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) ³	1,000,000	1,000,000	1,000,000	1,000,000	2,400,000	2,400,000
Additional Features						
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
Physical and Networking						
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

QUANTUM SECURITY GATEWAYS - LEGACY

	3600	3800	6200	6400	6600	6700	6900										
	Branch Office		Small to Mid-Enterprise														
Enterprise Testing Conditions																	
Threat Prevention (Gbps) ¹	780 Mbps	1.5	1.8	2.5	3.7	5.8	7.4										
NGFW Throughput (Gbps) ²	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										
Ideal Testing Conditions																	
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) ³	2	4	2/8	4/8	2/8	2/8	4/16										
Additional Features																	
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										
Physical																	
Enclosure	Desktop	Desktop	1U	1U	1U	1U	1U										
Appliance Configurations			Base	Plus	Max	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max	Base	Plus	Max
Network I/O Expansion Slots			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
Accessories																	
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
Virtual Systems																	
Maximums with default memory	5	10	10	20	20	10	20	20	10	20	20	10	20	20	10	20	20

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.

¹ Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast.

² Includes Firewall, Application Control, IPS.

³ Performance measured with default/maximum memory.

	7000			16200			16600			26000			28000			28600	
	Large Enterprise						Data Center										
Enterprise Testing Conditions																	
Threat Prevention (Gbps) ¹	9.5			15			17.6			24			30			30	
NGFW Throughput (Gbps) ²	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	
Ideal Testing Conditions																	
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) ³	4/16			8/32			32			10/32			10/32			49	
Additional Features																	
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	
Physical																	
Enclosure	1U			2U			1U			3U			3U			1U	
Appliance Configurations	Base	Plus	Max	Base	Plus	Max	Base		Base	Plus	Max	Base	Plus	Max	Base		
Network I/O Expansion Slots	2			4			-		8			8			-		
1 GbE Copper	10	10	26	10	10	34	2		10	10	66	2	10	66	2		
1 GbE Fiber	0	0	8	0	0	16	-		0	0	32	0	0	32	-		
10 GbE	0	4	8	0	8	16	-		0	12	32	4	12	32	-		
100/40/25/10 GbE	0	0	2	0	0	4	2		0	0	8	0	2	8	2		
Accessories																	
Memory	16	32	64	48	64	128	128		48	96	128	64	96	128	192		
Redundant Storage	Opt.	ü	ü	Opt.	ü	ü	-		Opt.	ü	ü	Opt.	ü	ü	-		
Redundant Power	Opt.	ü	ü	Opt.	ü	ü	ü		ü	ü	ü	ü	ü	ü	ü		
LOM	Opt.	ü	ü	Opt.	ü	ü	ü		Opt.	ü	ü	Opt.	ü	ü	ü		
Virtual Systems																	
Maximums with default memory	10	30	50	60	250	250	250		125	250	250	125	250	250	250		

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.

¹ Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast.

² Includes Firewall, Application Control, IPS.

³ Performance measured with default/maximum memory.

COMPREHENSIVE SOFTWARE BUNDLES

	NGFW Basic access control with IPS	NGTP Prevent known threats	SandBlast Prevent zero-day threats
Security Gateway Feature Sets			
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
Security Management Feature Sets			
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