



QUANTUM™ LIGHTSPEED FIREWALLS COMPARISON CHART

YOU DESERVE THE BEST SECURITY



QUANTUM LIGHTSPEED

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Modern enterprises and datacenters now require network security that performs at extremely high speeds and the ability to execute massive daily backups and transfers of multi-terabyte files. Customers now also expect ultra-low latency to support sensitive applications like high frequency trading and other financial transactions. And more than ever, datacenters need to quickly and easily scale up their aggregate data throughput, and secure multi-Terabits per second. This need for hyper-scale access is due in part to fast growing e-commerce and work-from-home demands.

Check Point Quantum Lightspeed firewalls are custom designed to meet and exceed these requirements at a very competitive price-performance. The Lightspeed family is 4 models; the QLS250, QLS450, QLS650 and the QLS800 which range in throughput from 250 Gbps to 800 Gbps of firewall throughput. Firewall throughput depends upon the number of accelerated 100GbE ports in the QLS model. Each 100GbE NIC has 2x 100G QSFP28 ports and delivers nearly 200G of aggregate firewall throughput at an average of 3 μ Sec ultra low latency.

Lightspeed firewalls include the Check Point stateful inspection firewall at an unprecedented price performance when compared to competing solutions. All-inclusive security packages such as NGFW, NGTP, or SandBlast are also available. In addition redundancy is built-in with 2x 960GB SSD drives in a RAID1 array and hot-swappable redundant power supplies, ensuring continuity when one unit fails. They also include LOM, telescopic rails and high memory capacity; 128 GB in the QLS250 and 192 GB in the other 3 models, the QLS450, QLS650 and QLS800.

	QLS250	QLS450	QLS650	QLS800
Data Center and High Frequency Application Environments				
Firewall System Performance				
Firewall 1518B UDP (Gbps)	250	450	650	796
Firewall Latency (avg)	3μSec	3μSec	3μSec	3μSec
Concurrent Sessions (M)	32	32	32	32
Accelerated 100GbE ports	2	4	6	8
Additional System Performance				
IPS Throughput (Gbps)	35	43	52.2	52.2
NGFW Throughput (Gbps) ¹	27	40.5	51.5	51.5
Threat Prevention (Gbps) ²	15	24	30	30
VPN Throughput (Gbps)	20	40.1	49	49
Additional Features				
CPUs/physical cores/virtual cores	2/24/48	2/36/72	2/36/72	2/36/72
SSD Size	2x 960GB	2x 960GB	2x 960GB	2x 960GB
Physical				
Enclosure	2U	3U	3U	3U
Network				
1 GbE Copper	✓	✓	✓	✓
10 GbE	✓	✓	✓	✗
Accelerated 100GbE	✓	✓	✓	✓
Accessories				
Memory	128 GB	192 GB	192 GB	192 GB
Redundant Storage	✓	✓	✓	✓
Redundant Power	✓	✓	✓	✓
LOM	✓	✓	✓	✓
Virtual Systems				
Maximums	250	250	250	250

1. Includes Firewall, Application Control, IPS. 2. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast.

	FW	NGFW	NGTP	SandBlast
Security Gateway Feature Sets				
Firewall	✓	✓	✓	✓
Identity Awareness	✓	✓	✓	✓
VPN (IPsec)	✓	✓	✓	✓
Mobile Access	✓	✓	✓	✓
Content Awareness	✓	✓	✓	✓
Advanced Networking & Clustering	✓	✓	✓	✓
Application Control	○	✓	✓	✓
IPS	○	✓	✓	✓
URL Filtering	○	○	✓	✓
Antivirus	○	○	✓	✓
Anti-Bot	○	○	✓	✓
Anti-Spam	○	○	✓	✓
SandBlast Threat Emulation	○	○	○	✓
SandBlast Threat Extraction	○	○	○	✓
DLP	○	○	○	○
Security Management Feature Sets				
Network Policy Management	✓	✓	✓	✓
Logging & Status	✓	✓	✓	✓

Firewall: the firewall package is only available in the Quantum Lightspeed models

Mobile Access: The Lightspeed models include 5 users in the default package and this can be extended using Mobile Access extensions

Optional Security Management Software features available: Monitoring, SmartProvisioning, SmartEvent, Endpoint Policy Management, Compliance