# QUANTUM™ LIGHTSPEED FIREWALLS COMPARISON CHART

YOU DESERVE THE BEST SECURITY

QUANTUM LIGHTSPEED

# QUANTUM LIGHTSPEED FIREWALLS

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 3μSec 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.

# QUANTUM LIGHTSPEED SECURITY GATEWAYS

| | 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 |
| Connections/sec | 430,800 | 474,950 | 517,800 | 546,150 |
| Concurrent Sessions (M) | 32 | 48 | 48 | 48 |
| Accelerated 100GbE ports | 2 | 4 | 6 | 8 |
| **Additional System Performance** | | | | |
| Firewall (Gbps) [1] | 79.9 | 153.55 | 192.1 | 205 |
| IPS Throughput (Gbps) [1] | 79.8 | 119.4 | 136.9 | 140.9 |
| NGFW Throughput (Gbps) [1] | 53.2 | 82.35 | 91.65 | 96.1 |
| Threat Prevention (Gbps) [1] | 16.65 | 26.25 | 32.35 | 33.3 |
| VPN Throughput (Gbps) | 22 | 34.2 | 45 | 45 |
| **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. Performance measured with enterprise testing conditions with logging enabled. NGFW: FW, App Control and IPS. NGTP: FW, App Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection.

# COMPREHENSIVE SOFTWARE BUNDLES

**CHECK POINT**

| | 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 | | | ✓ | ✓ |
| DNS Security | | | ✓ | ✓ |
| SandBlast Threat Emulation | | | | ✓ |
| SandBlast Threat Extraction | | | | ✓ |
| Zero Phishing | | | | ✓ |
| DLP | optional | optional | optional | optional |
| IoT Protect | optional | optional | optional | optional |
| **Security Management Feature Sets** | | | | |
| Network Policy Management | ✓ | ✓ | ✓ | ✓ |
| Logging & Status | ✓ | ✓ | ✓ | ✓ |

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

**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