

CHECKLIST

How High Performance Data Center Firewalls are Eliminating the Trade-Off Between Speed and Security

There has long been a trade-off between security and performance when it comes to firewalls. However, thanks to next-generation firewalls, businesses can now maintain security without placing a cap on their network performance.

Check Point's new secure hyper-fast firewall Quantum Lightspeed offers a range of benefits to businesses requiring top-of-the-line network speed. Here are six benefits Quantum Lightspeed can offer.



Hyper-Fast Firewall

A network's speed or throughput determines how fast it transfers data. In the past, firewalls have often created bottlenecks while inspecting traffic, slowing down the overall performance of a network.

Businesses in the modern world generate vast datasets that create a continuous flow of traffic across the network, also referred to as "elephant flows." Companies in industries like manufacturing, finance, pharmaceuticals, e-commerce, aeronautics, and others need high-throughput networks that can keep up with the considerable data they produce.

With Quantum Lightspeed, security no longer has to throttle throughput. Speeds up to 800 Gbps mean large-scale secure data transfers across data centers and multiple clouds take a fraction of the time. Simplifying and accelerating your business operations as well as reducing the time and resources needed to back up your company's vital information securely.



Ultra-Low Latency

While network throughput measures the maximum volume of data that can be transferred, latency is the time elapsed between a user request and that request being completed. From a frustrating laggy video conference to missing leverage opportunities in high-frequency trading, latency creates issues for businesses with high traffic volume on their network.

By reducing the time it takes for networks to meet user requests, businesses can unlock significant advantages. Quantum Lightspeed forwards packets at 3µS ultra-low latency that:

- Improves the speed of client interactions
- Offers high-speed financial transactions
- Allows for seamless collaboration within a global workforce
- Boosts employee productivity



Price Performance

All this comes at an unmatched price point. Quantum Lightspeed offers firewall performance at lower costs, 20%-50% less than leading competitors.



Scalability Simplified

Businesses require firewall solutions that scale as they grow and adapt to the constantly changing cyber-threat landscape. This provides IT teams with the versatility necessary to maintain both security and performance as network requirements change.

Today's enterprises and data centers require high performance firewalls that can keep up with extreme network speeds and hyper throughput demands from multi-terabyte backups — plus unprecedented growth in eCommerce and remote workforces. Businesses also demand ultra-low latency to support sensitive applications, including high frequency trading.

With Quantum Lightspeed firewalls in a Quantum Maestro system, you can simplify scaling up your network's firewall needs without costly hardware overhauls. This allows you to maintain the security of your network while sustaining growth of up to 7.5 times in on-line traffic, effectively accelerating access control throughput for up to 3 Tbps of aggregate traffic.



Reduce Your Data Center Space and Power Needs

With shrinking data centers, companies need firewall solutions that can do more with less. That means finding new smaller form factor appliances that require less space and power to operate.

This helps overcome the reduction in available data center space while also reducing server costs. Companies no longer have to shell out to lease large-scale data center space and the associated power/cooling cost they require.

With reduced data center space, the remaining IT infrastructure companies do employ becomes even more critical. Thankfully next-generation firewalls like Quantum Lightspeed offer high performance and security while taking up less rack space within data centers.



Maintain Security

Cyberattacks are only increasing. With digital acceleration across sectors, cybersecurity must become a top priority for all companies if it wasn't already.

Check Point Research shows that 2021 saw a 70% year-on-year increase in the average weekly number of cyberattacks on US organizations. With cybercriminals finding new and more sophisticated approaches. For example, in 2021, 1 out of every 61 organizations globally is being impacted by ransomware each week.

Keeping these threats at bay means implementing a multi-layered yet unified security approach across your organization. As the first line of defense, companies need next-generation firewalls that go beyond basic safelisting to offer granular traffic, inspection, and control.

Quantum Lightspeed data center firewalls offer all the great security to prevent advanced threats. With Check Point, you get the best of both worlds, maintaining your security while getting hyper-fast firewall performance.

Quantum Lightspeed ticks all the boxes, with accelerated firewall security, seamless scalability, smaller footprint, and lower pricing. If you're looking for a next-generation firewall to catapult your company to another level, Quantum Lightspeed is the only option. Save time on your network by saving money.



QUANTUM LIGHTSPEED