

Solution brief

Get exceptional performance for NoSQL Apache Cassandra



HP Moonshot with DataStax Enterprise

Effortlessly handle large amounts of data with predictable scalability, exceptional performance, and continuous availability.



Optimize application performance

Increase transaction throughput by up to 1.7X,* reduce downtime, and do more with less



Realize breakthrough economics

Lower your total cost of ownership (TCO) up to 66 percent* and conserve precious resources



Accelerate innovation

Scale to meet demand with greater compute density, and enjoy operational simplicity

New business demands create big challenges

The world as we know it is constantly changing—we are living in a radically connected world that is always-on and running at microsecond speed. In this environment, the complexity and cost of legacy technologies can make it difficult to deliver real-time business insight from extremely high-volume, high-velocity, dynamic, and unstructured data.

If you're trying to manage today's data avalanche with legacy technology, you are likely struggling under costs that are spiraling out of control, lagging response times, and have extremely limited scale-out capabilities—not to mention the challenge of maintaining zero downtime for these business-critical applications.

Deploying more general-purpose servers to run applications is a common response, but, at scale, leads to underutilization of hardware and inefficiencies in terms of space and power.

There is a better way.

A right-sized solution

HP Moonshot for NoSQL Apache Cassandra™ with DataStax Enterprise enables a massively scalable, distributed database management system that effortlessly handles large amounts of data across many servers with predictable scalability and exceptional performance.

HP Moonshot System delivers breakthrough efficiency and scale by aligning just the right amount of compute, memory, and storage for specific workloads, delivered in a dense, power- and energy-efficient package. Leveraging HP ProLiant m710 Server Cartridges, the complete system supports the massive scalability required by modern, data-driven, online applications. It also offers reductions in power, space, and complexity compared to traditional rack servers.

DataStax delivers Apache Cassandra in a database platform purpose built for the performance and availability demands of IOT, Web, and Mobile applications, giving enterprises a secure always-on database that remains operationally simple when scaled in a single data center or across multiple data centers.

DataStax Enterprise (DSE)

DataStax Enterprise provides enterprises with production-certified Cassandra including in-memory computing, built-in security, powerful integrated analytics, enterprise search, automated management, and visual administration tools.

Optimize application performance

Increase transaction throughput

HP Moonshot with DataStax Enterprise can support a growing user base with up to 1.7X more ops/sec than traditional rack mount infrastructure to ensure exceptionally fast response times.*

Reduce downtime

DataStax Enterprise is built to be agile and always-on, resulting in continuous availability for business-critical applications that require fast performance with no downtime.

Realize breakthrough economics

Lower your total cost of ownership

Realize significant power, space, and cost savings with up to 66 percent improvement in TCO compared to traditional rack mount deployments.*

Conserve space and power resources

HP Moonshot's converged infrastructure and DataStax's agile approach address the scalability needed for complex, large-scale deployments. The substantial reduction in footprint and physical components results in a system that uses up to 75 percent less space and up to 90 percent less power than traditional infrastructure,* all while achieving exceptional performance.

Do more with less

Avoid paying for additional IT infrastructure that you are not fully utilizing by acquiring the best solution for your workload. HP Moonshot with DataStax Enterprise simplifies your application environment and increases capacity and utilization with a much smaller footprint.

Accelerate innovation

Scale to meet demand

Deliver greater compute density and configuration simplicity even as you grow. Simply add more HP ProLiant m710 Server Cartridges or an additional Moonshot chassis with minimal cabling. The DataStax Enterprise visual management tool allows you to easily add nodes without downtime to meet business demands.

Enjoy operational simplicity

Take IT from the business of database administration to the business of fueling innovation. DataStax Enterprise on HP Moonshot reduces the burden of management with tools that enable you to visually monitor and manage your environment with full control from any browser and device.

Don't wait another day

Act now to find out how HP Moonshot with DataStax Enterprise can transform your business.

Learn more at
hp.com/go/moonshot

* HP Internal testing, compared to a traditional 2U/2P rack server

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