



DDN EXAScaler Product Family

Artificial Intelligence (AI), Analytics and High-Performance Computing (HPC) enable organizations everywhere to gain insights from their data with unprecedented velocity and accuracy. Data-intensive workflows put storage infrastructure squarely in the critical path - driving requirements for extreme, dependable performance that scales easily to meet evolving workload requirements on premise and in the cloud.

EXA6: THE WORLD'S MOST ADVANCED PARALLEL FILESYSTEM

Developed and optimized using the latest advances in filesystem software technology, EXA6 delivers extreme performance, scalability, capability, reliability and simplicity.

Augmented with feature-rich enhancements, EXA6 delivers a true global data platform capable of enabling and accelerating a wide-range of data-intensive workflows, at any scale. Fully-integrated DDN EXAScaler appliances combine the world's fastest hyperconverged data storage platform with a truly parallel filesystem software in a package that's easy to deploy, managed and backed by the leaders in data at scale.

EXA6 is fully-optimized to deliver data with high-throughput, low-latency and massive concurrency using a shared parallel architecture that can scale flexibly bringing dramatic performance and economic benefits. Building on over a decade of experience deploying parallel filesystem solutions in the most demanding environments around the world, DDN delivers unparalleled performance, capability and flexibility for users looking to manage and gain insights from massive amounts of data.

DATA MANAGEMENT: AUTOMATED, OPTIMIZED, AND SECURE

EXAScaler includes new data management and integrity filesystem features developed by DDN and only available in its appliances and cloud offerings. Stratagem is a powerful data orchestration engine that gives users comprehensive data residency controls using policy-based placement.

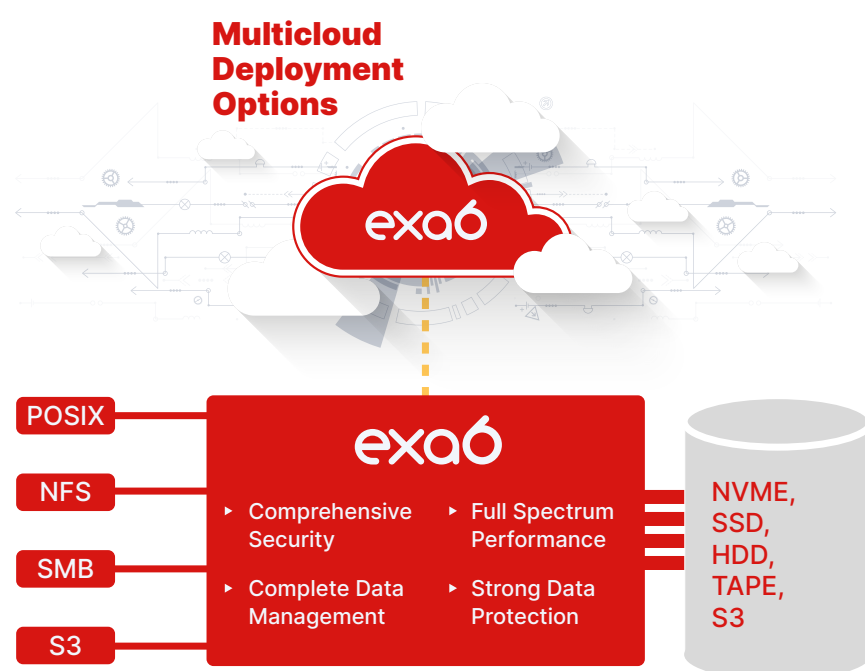
Hot Nodes capability accelerates data access further, by automatically caching data on the local NVMe of GPU systems, reducing IO latency and traffic by avoiding network round trips, and freeing up infrastructure to serve additional workloads.

Hot Pools intelligently moves data between high-performance flash and large capacity disk and ensures efficient use of storage. A native T10DIF implementation ensures that data is handled with full integrity from application to disk.

EXAScaler enables organizations everywhere to create, analyze and manage more data than ever before, accelerating time-to-insight with unequalled performance for the most demanding workloads on premise and in the cloud.

THE NEXT GENERATION PARALLEL FILESYSTEM SOLUTION

- » Global Data Platform
- » Scales Effortlessly
- » Fastest
- » Densest
- » Flexible Architecture
- » Deep GPU Integration
- » Most Experience



DELIVERING FEATURES AND FUNCTIONALITY YOU CAN'T GET ANYWHERE ELSE

EMBEDDED/CONVERGED:

Realize the lowest TCO with simple and efficient EXAScaler appliances.

DEPLOYMENT TOOLS:

Simplify EXAScaler adoption with data migration and configuration tools.

EXASCALER MANAGEMENT FRAMEWORK:

Vastly simplify deployment and management of large scale clusters and benefit from online upgrades with DDN's orchestration platform.

ENCRYPTION:

Ensure data security with encryption in-flight and at-rest.

DATA INTEGRITY:

Transparently assure accuracy and consistency of data with end-to-end verification.

AUDITING:

Meet legal and regulatory requirements with a complete picture of who made changes, and when.

QUOTAS:

Maintain control of the filesystem with use, project, and directory quotas.

AI-OPTIMIZED:

Quickly spin up new AI and deep learning applications through full interoperability with common frameworks and GPU integration.

FLEXIBLE PROTOCOLS:

Supply data ingest and access facilities with standard file and object protocols.

WORKLOAD ANALYTICS:

Gain deep understanding of filesystem and hardware utilization, and monitor performance at node and job-levels.

HOT NODES:

Automatically cache data on local NVMe of GPU systems, reducing IO latency and traffic, freeing up infrastructure to serve additional workloads, such as ingest, labelling and archive.

HOT POOLS:

Optimize flash utilization and long- term data retention with automated policy and API-based data movement.

CONTAINER SUPPORT:

Get high performance parallel access for containerized applications.

MULTICLOUD READY:

Deploy one data management architecture on-premises and in commercial clouds with cloud native deployment.

MULTITENANCY:




Maintain secure, isolated access to data for multiple users or organizations.

APPLICATION ACCELERATION:

Deliver the highest throughput and IOPS performance with the lowest latency via the EXAScaler client.

DEEP GPU INTEGRATION:

Produce better application run times with the most efficient data path via support for NVIDIA GPUDirect technology.

			
CONTROLLER HOSTS PORTS PER APPLIANCE	4x HDR/HDR100 or 200/100GbE	8x HDR/HDR100 or 200/100GbE	16x HDR/HDR100 or 200/100GbE
STORAGE CONFIGURATION	Supports A Full Range of DDN TLC, QLC and Hybrid Appliances and Public Cloud		
HOST CONNECTIVITY	HDR/HDR100 Infiniband or 200/100GbE		

About DDN

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. DDN has designed, developed, deployed, and optimized systems, software, and solutions that enable enterprises, service providers, research facilities, and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud.

Product Specifications Subject to Change

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