

ThinkSystem DS Series All-Flash Array

Simple, powerful, and secure all-
flash block storage



The Challenge

Organizations attempting to modernize their IT infrastructure with block (SAN) storage often struggle with balancing cost, complexity, and performance. Traditional block storage systems are designed to deliver high performance and reliability, but they have historically come with rigid architectures and management overhead that limit flexibility. IT teams face challenges when trying to scale systems to meet growing application demands without introducing bottlenecks or disrupting the existing workloads.

Additionally, integrating modern capabilities, such as automation or advanced data services, into legacy SAN environments can be difficult, requiring specialized skills and adding to operational costs. These barriers can slow down transformation initiatives and hinder the ability to fully align storage infrastructure with the evolving business needs.

Another challenge lies in managing risk while enabling innovation. Many organizations want the agility of modern block storage solutions that offer scale out architectures and built-in security, but achieving this often involves replacing or heavily reconfiguring existing systems. This creates uncertainty around data migration, application downtime, and potential performance trade-offs.

In some cases, IT leaders must choose between the simplicity of “good enough” solutions and the advanced data management capabilities that would deliver long-term efficiency and resiliency. These compromises have historically delayed modernization efforts, forcing organizations to pay for short-term stability over futureproofing their infrastructure.

The Solution

The Lenovo ThinkSystem DS Series removes the need for compromise by delivering streamlined, reliable, and secure all-flash storage equipped with advanced data services and protection capabilities. ThinkSystem DS Series systems empower organizations to modernize storage with ease, providing an intuitive experience for running virtual environments, mission-critical databases, and a wide range of SAN workloads.

Leveraging a scale-out, end-to-end NVMe design with active-active controllers, the ThinkSystem DS Series delivers exceptional availability, robust security, predictable performance, and simplified administration.

Organizations can transform their SAN infrastructure boosting application performance, ensuring continuous data access, and reducing management complexity.

Lenovo

The ThinkSystem DS Series offers models tailored for intensive, high-performance workloads, as well as a capacity-optimized system that supports large-scale, cost sensitive deployments. This flexibility also makes the ThinkSystem DS Series an excellent choice for secondary use cases such as backup and disaster recovery environments.

Integrated Data Protection

The Lenovo ThinkSystem DS Series software provides a comprehensive range of data protection features to fortify the security of your sensitive data. Anti-ransomware protection ensures comprehensive safeguarding of your critical data, both proactively and during post-attack recovery, mitigating the risk of potentially devastating financial ramifications.

With Lenovo ThinkSystem DS Series system software, businesses can achieve uninterrupted data availability with zero data loss and downtime. Your entire system can be safeguarded, ensuring comprehensive protection. Furthermore, the software offers a flexible and cost-effective solution for business continuity by enabling highly granular replication of specifically selected critical data, enhancing your data resilience strategies.

Simplified Monitoring and Management

[ThinkSystem Intelligent Monitoring](#) is a comprehensive, cloud-based digital advisor that simplifies managing and monitoring of performance, capacity, and health in Lenovo ThinkSystem Storage systems through features like events, alerts, performance troubleshooting, capacity reporting, and more.

Like any good advisor, ThinkSystem Intelligent Monitoring keeps you informed and highly efficient. It provides constant visibility into the health of your environment, lets you know when attention is required, and gives you clear guidance for any actions. ThinkSystem Intelligent Monitoring alerts, insights, and guidance are available in the web UI for full-featured visibility into system health, best next actions, upgrades, and more.

Specifications

A high-availability (HA) pair consists of two nodes in a single ThinkSystem DS Series system.

	DS3200	DS5200	DS7200	DS5200C
SAN Scale-out Maximum	3 HA Pairs/Systems	4 HA Pairs/Systems	6 HA Pairs/Systems	4 HA Pairs/Systems
Maximum Raw Capacity (PB)	2.2PB	4.4PB	11.0PB	5.88PB
Maximum Usable Capacity (PiB)	1.7PiB	3.4PiB	8.3PiB	4.4PiB
Maximum Effective Capacity (PiB) (based on 5:1)	8.3PiB	16.8PiB	41.7PiB	22.2PiB
Per-system specifications (high-availability dual controller HA pair)				
Controller Form Factor	2U24	2U24	2U24	2U24
Maximum SSDs	48	72	120	48
Maximum Raw Capacity (TB/PB)	734TB	1.1PB	1.8PB	1.47PB
Maximum Usable Capacity (TiB/PiB)	567TiB	858TiB	1.4PiB	1.11PiB
Maximum Effective Capacity (PiB) (based on 5:1)	2.8PiB	4.2PiB	7.0PiB	5.55PiB
PCIe Expansion slots	8			
FC Target Ports (up to 64Gb)	24			
Ethernet ports (100Gbps)	12	16		
Storage Networking Supported	NVMe/TCP, NVMe/FC, FCP, iSCSI			
OS Version	ONTAP 9.17.1 P1 or later			
Shelves	DS240N			
Host/Client OS Supported	Windows Server, Linux, VMware			

Some ports are reserved for Cluster Interconnect. Disk expansion will reduce host ports.

Software Features

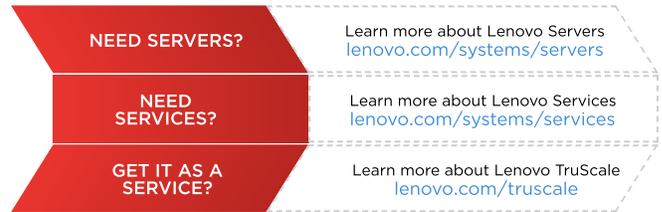
Feature	Benefits
High Availability	<ul style="list-style-type: none"> • Symmetric active-active FCP, iSCSI, and NVMe multipathing • Nondisruptive maintenance, upgrade, and scale-out clustering • Multisite resilience for continuous data access
Storage Efficiency	<ul style="list-style-type: none"> • Inline data compression, deduplication, and compaction • Space-efficient cloning • NVMe allocate for block space reclamation with Virtual Machines (VMs)
Data Management	<ul style="list-style-type: none"> • Intuitive on-board GUI, REST APIs, and automation integration • Quality of service (QoS) workload control • Easy provisioning and data management from market-leading host operating systems, hypervisors, and application software
Data Protection	<ul style="list-style-type: none"> • Application-consistent Snapshot copies for backup and restore • Integrated remote backup and disaster recovery • Synchronous zero-data-loss replication • Tamperproof Snapshot copies • Symmetric active-active multisite replication for business continuity
Security and Compliance	<ul style="list-style-type: none"> • Multifactor admin access • In-flight and data-at-rest encryption • Regulatory-compliant data retention • Multi-admin verification before executing sensitive commands

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

For More Information

To learn more more about the ThinkSystem DS Series All-Flash Array, contact your Lenovo representative or Business Partner, or visit lenovo.com/storage.



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