

# ThinkSystem DE Series All-Flash Array

Maximum performance all-flash  
storage for next-gen workloads



## The challenge

It's essential that business-critical applications run with maximum efficiency. Organizations are continually looking for ways to improve the speed and responsiveness of key applications that control their business operations.

Performance and availability tightly linked to time-to-market, revenue, and customer satisfaction – and enterprises need solutions that improve the speed and responsiveness of these applications to gain a competitive edge.

## The Solution

The Lenovo ThinkSystem DE Series all-flash arrays are designed for workloads that demand the highest levels of performance. Combining extreme IOPS, sub-100 microsecond response times, and maximum read/write bandwidth, the DE series all-flash storage systems enable you to achieve greater than 99.9999% availability and provide data integrity and security. Key features include:

- Modular and flexible configuration options to support demanding performance and cost requirements.
- Industry-leading IOPS and ultralow latency to increase application responsiveness.

- NVMe delivers 2x the performance of SAS-based all-flash arrays.
- Support for multiple high-speed host interfaces in 2U form factors.
- Industry-leading price/performance for both IOPS and bandwidth.
- NVMe-oF and SCSI options provide investment protection
- Simple, flexible administration.
- Browser-based GUI with guided configuration and recovery.

With various connectivity, drive, and expansion options, Lenovo ThinkSystem DE Series all-flash arrays offer flexibility and investment protection to meet future demands, making it an ideal solution for companies of all sizes facing rapid data growth.

## All-Flash Delivers Performance

Lenovo ThinkSystem DE Series All-Flash systems offer a wide range of flash storage options, affordable to extreme IOPS, response times under 100 microseconds, and up to 44GBps of throughput. Lenovo ThinkSystem DE Series All-Flash systems are ideal for mixed workloads and demanding applications such as analytics, high-performance computing (HPC), and artificial intelligence (AI).

Lenovo

## Protecting Your Competitive Advantage

ThinkSystem DE Series All-Flash systems include advanced data protection and security features to ensure your data remains safe.

- Self-encrypting drives support (SED/FIPS)
- Native encryption key management
- External encryption key management (KMIP-compliant)
- Role-based access control and audit log
- LDAP/LDAPS for user authentication
- SAML support to enable Multi-Factor Authentication
- Common Criteria certified

## 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 DE, DG, and DM Series 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.

## XClarity Support

Lenovo XClarity™ Administrator (LXCA) is a centralized resource management solution that is aimed at reducing complexity, speeding response, and enhancing the availability of Lenovo® server systems and solutions. Lenovo XClarity Administrator runs as a virtual appliance and provides agent-free hardware management that automates discovery, inventory, tracking, updates, monitoring, and provisioning for Lenovo® server systems, storage, network switches, hyperconverged and ThinkAgile solutions.

## Specifications

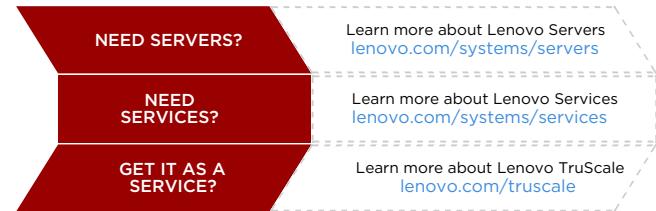
	<b>DE6000F</b>	<b>DE4000F</b>	<b>DE4800F</b>	<b>DE6400F</b>	<b>DE6600F</b>
Form Factor (Controller Enclosure)	2U24	2U24	2U24	2U24	2U24
Maximum Raw Capacity (PB)	1.84PB	1.84PB	1.47PB	1.84PB	1.84PB
Maximum Drives	120	96	120	120 (24 NVMe + 96 SAS SSD)	120 (24 NVMe + 96 SAS SSD)
Maximum Expansion	Up to 4 DE240S	Up to 3 DE240S	Up to 4 DE240S	Up to 4 DE240S (24 NVMe in Controller Enclosure + 96 SAS SSD)	Up to 4 DE240S (24 NVMe in Controller Enclosure + 96 SAS SSD)
IOPS	1,000,000 IOPS	300,000 IOPS	900,000 IOPS	670,000 IOPS	2,000,000 IOPS
Sustained Throughput (GBps)	Up to 21GBps	Up to 10GBps	Up to 12GBps	Up to 20GBps	Up to 44GBps
System Memory (GB)	128GB	64GB	128GB	32GB	64GB/256GB
Base ports	Not applicable	Not applicable	4x 10/25G iSCSI	Not applicable	Not applicable
Optional I/O Ports (per system)	8x 16Gb/32Gb FC 8x 10Gb/25Gb iSCSI 8x 12Gb SAS	8x 16Gb/32Gb FC 8x 10Gb/25Gb iSCSI 8x 12Gb SAS	8x 12Gb SAS 8x 1/10 Gb iSCSI RJ-45 8x 16Gb/32Gb FC	4x 100Gb NVMe/IB, NVMe/RoCE 4x 100Gb iSER/IB, SRP/IB 8x 32 Gb NVMe/FC 8x 32Gb SCSI FC 8x 25Gb iSCSI	4x 200Gb NVMe/IB, NVMe/RoCE, SRP/IB and iSER/IB 8x 100Gb NVMe/IB, NVMe/RoCE 8x 100Gb iSER/IB, SRP/IB 16x 32Gb NVMe/FC 16x 32Gb SCSI FC 16x 25Gb iSCSI
System Maximums	Hosts/Partitions: 512 Volumes: 2,048 Snapshot copies: 2,048 Mirrors: 128	Hosts/Partitions: 256 Volumes: 512 Snapshot copies: 512 Mirrors: 32	Hosts/Partitions: 256 Volumes: 512 Maximum DDP Capacity per System: 12PB Maximum DDP Volume Size: 4PB Maximum RAID Volume Size: 4PB Snapshot Copies: 512 Async Mirror Pairs: 32	Hosts: 512 Partitions: 256 Volumes: 1,024 DDP volume size: 2PiB RAID volume size: 30 drives Snapshot copies: 1,024	Hosts: 1024 Partitions: 512 Volumes: 2,048 DDP volume size: 2PiB RAID volume size: 30 drives Snapshot copies: 2,048

## 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 about the ThinkSystem DE Series All-Flash Array, contact your Lenovo representative or Business Partner or visit [lenovo.com/storage](http://lenovo.com/storage).



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