Introducing the new Lenovo ThinkSystem Storage Arrays

Article

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DM & DG Series

The latest all flash and hybrid series are built on ONTAP 9.16.1. Designed to provide performance, simplicity, capacity, security, and high availability for medium-sized enterprises. Supported products are:

- Low entry: DM3200F (7DJ0)
- Mid entry: TLC DM5200F (7DJ2)
- High entry:TLC DM7200F (7DJ3)
- Mid entry: QLC DG5200 (7DHY)
- High-QLC DG7200 (7DHZ)
- Mid entry: Hybrid DM5200H (7DJ1)
- Expansions DM242N (7DJ8), DG242N (7DJ9)

Some of the security enhancements include:

- Full-spectrum data protection built into ONTAP
- AI-powered ONTAP Autonomous Ransomware Protection (ARP/AI)
- File activity threat detection and response
- World's first and only AI-driven on-box ransomware detection for NAS
- Multiple signals: entropy, file activity,and file headers
- Next-generation AI provides precise detection from day one
- Auto-update for optimal, efficient, and accurate turnkey detection (at GA)
- Effortless upgrades for existing ARP customers (at GA)

DE Series

New generation of hybrid and all flash mid-range storage systems are a perfect fit for a wide range of enterprise workloads, including big data and analytics, video surveillance, technical computing, backup and recovery

- DE4800H 7DCB
- DE4800F 7DCC
- Expansions: DE120S (7Y63), DE240S (7Y68)

New enhancements include:

- Optimized for Performance and Price
- Purpose-built to optimize performance for mixed workloads
- 3X the performance with more flexible IO and longer lifespan
- 160% denser efficient storage
- 3x performance vs DE4000F

- Asynch mirroring & snapshot upgrades included
- Flash simplicity

Hybrid entry-level storage system delivering enterprise-class storage management capabilities with a wide choice of host connectivity options, flexible drive configurations, and enhanced data management features

- DE4200H 7DCA
- Expansions: DE120S (7Y63), DE240S (7Y68)

New enhancements include:

- Supports multi-protocol and increased flexible IO
- Growing businesses, virtualization, databases
- Channel friendly configuration.
- Longer availability and protection

ThinkSystem DM3200F, DM5200F and DM7200F

The Lenovo ThinkSystem DM3200F, DM5200F and DM7200F Unified Storage Arrays are an all-NVMe flash unified storage.

High-performance systems designed for next generation all-flash workloads.

The Lenovo ThinkSystem DM3200F, DM5200F and DM7200F are:

- 2U rack-mount enclosure that includes two controllers
- DM3200F, DM5200F and DM7200F leverage similar chassis with identicl front and rear onboard ports and HICs

Figure 1. Lenovo ThinkSystem DM7200F Unified Storage Array

Some of the characteristics of the Unified Storage Arrays "all-flash" models are:

Table 1. DM3200F, DM5200F and DM7200F

Feature	**DM3200F**	**DM5200F**	**DM7200F**
Form Factor, Controller	2U, 24 drives	2U, 24 drives	2U, 24 drives
Processor (per controller)	3508U 8C, 2.0 GHz	5416S 16C, 2.8 GHz	5411N 24C, 2.8 GHz
Memory (per controller)	64GB DDR5-4400	64GB DDR5-4400	128GB DDR5-4400
NVMEM (per controller)	8GB	8GB	16GB
OS version	ONTAP 9.16.1 or later	ONTAP 9.16.1 or later	ONTAP 9.16.1 or later
Max#: expansion / shelf	1x DM242N	2x DM242N	4x DM242N
NVMe SSD support	48	72	120
Direct attach NVMe expansion	1	2	2
Switch attach NVMe expansion	0	2	4

Learn more about the DM3200F, DM5200F and DM7200F Unified Storage Arrays with these resources:

- DM3200F, DM5200F and DM7200F Unified Storage Arrays product web page
- DM3200F, DM5200F and DM7200F product guide
- DM3200F, DM5200F and DM7200F datasheet
- DM3200F, DM5200F and DM7200F interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

ThinkSystem DG5200 and DG7200

New DG Series the Lenovo ThinkSystem DG5200 and DG7200 Unified Storage Arrays are an all-QLC flash storage systems.

Capacity all-flash systems designed for efficiency and capacity. No trade-offs between improved storage efficiency and capacity.

Architect forward:

- Increase capacity & efficiency – reducing footprint & cost
- End-to-end capacity flash NVMe - 61.4TB drives
- Save up to 70% on storage costs through automated data tiering to the cloud
- Designed for sustainability
- Scalability while maintaining data availability
- Active-active controller

Lenovo ThinkSystem DG5200 and DG7200 Unified Storage Arrays are:

- 2U rack-mount enclosure that includes two controllers
- DG5200 for smaller capacity needs
- DG7200 for higher performance requirements
- Leverage similar chassis with identical front and rear onboard ports and HICs

Figure 2. Lenovo ThinkSystem DG7200 Storage Array

Some of the characteristics of the Unified Storage Arrays "all-QLC flash" models are:

Table 2. DG5200 and DG7200

Feature	DG5200	DG7200
Form Factor, Controller	2U, 24 drives	2U, 24 drives
Processor (per controller)	5416S (10C*), 2.8 GHz	5416S 16C, 2.8 GHz
Memory (per controller)	64GB DDR5-4400	64GB DDR5-4400
NVMEM (per controller)	8GB	8GB
OS version	ONTAP 9.16.1 or later	ONTAP 9.16.1 or later
Max#: expansion / shelf	2x DG242N	4x DG242N
NVMe QLC SSDs support	72	120
Direct attach NVMe expansion	2	2
Switch attach NVMe expansion	2	4

*Software restriction 10C per controller

Learn more about the DG5200 and DG7200 Unified Storage Arrays with these resources:

- DG5200 and DG7200 Unified Storage Arrays product web page
- DG5200 and DG7200 product guide
- DG5200 and DG7200 datasheet
- DG5200 and DG7200 interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

ThinkSystem DM5200H Unified Storage Array

Lenovo ThinkSystem DM5200H Unified Storage Array is a hybrid flash unified storage system, designed to provide performance, simplicity, capacity, security, and high availability for medium-sized enterprises.

DM5200H completes the refresh of the hybrid flash family. Key benefits include:

- Optimize data tiering, backup, and cyber vault with economical hybrid flash storage
- Achieve lowest lifecycle cost of data
- Simplify at scale by tiering, backup, and creating an air-gapped cyber vault on the same ONTAP as the rest of your hybrid cloud environment
- Rely on the safest storage on the planet to securely store your critical backup datasets

Some of the Security Enhancements include:

- Full-spectrum data protection built into ONTAP 9.16.1
- AI-powered ONTAP Autonomous Ransomware Protection (ARP/AI)
- File activity threat detection and response
- World’s first and only AI-driven on-box ransomware detection for NAS
- Multiple signals: entropy, file activity,and file headers
- Next-generation AI provides precise detection from day one
- Auto-update for optimal, efficient, and accurate turnkey detection (at GA)
- Effortless upgrades for existing ARP customers (at GA)

Figure 3. Lenovo ThinkSystem DM5200H Unified Storage Array

Some of the characteristics of the Unified Storage Arrays "all-QLC flash" models are:

Table 3. DM5200H Unified Storage Array

Feature	**DM5200H**
Form Factor, Controller	2U, 24 drives
Processor (per controller)	5416S 16C, 2.8 GHz
Memory (per controller)	64GB DDR5-4400
NVMEM (per controller)	16GB
OS version	ONTAP 9.16.1 or later
Max#: expansion / shelf	20x DM120S (7D7X) 5x DM240S (7D7Y) 8x DM600S (7D7Z)
SAS SSDs / HDDs support	480

Learn more about the DM5200H Unified Storage Array with these resources:

- DM5200H Unified Storage Array product web page
- DM5200H product guide
- DM5200H datasheet
- DM5200H interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

ThinkSystem DE4800H and DE4800F Storage Arrays

Lenovo ThinkSystem DE4800H and DE4800F are a new generation of hybrid and all flash mid-range storage systems that are designed to provide high performance, simplicity, capacity, security, scalable, and high availability for medium to large businesses.

Key benefits include:

- **DE4800H**:
  - Higher performance, 3X the performance with more flexible IO and longer lifespan
  - 4U60 form factor
  - Performance and scalability
  - Increased max drive count (300x).
  - Synch replication
- **DE4800F**
  - 3x performance vs DE4000F
  - Asynch mirroring & snapshot upgrades included
  - Flash simplicity

The ThinkSystem DE4800H and DE4800F are a perfect fit for a wide range of enterprise workloads, including big data and analytics, video surveillance, technical computing, backup and recovery, and other storage I/O-intensive applications.

Figure 4. Lenovo ThinkSystem DE4800H

Learn more about the Lenovo ThinkSystem DE4800H and DE4800F Storage Arrays with these resources:

- DE4800H and DE4800F Storage Arrays product web page
- DE4800H and DE4800F product guide
- DE4800F DE series all-flash datasheet
- DE4800H DE Series Hybrid Flash Array datasheet
- DE4800F interactive 3D tour
- DE4800H interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

ThinkSystem DE4200H Hybrid Storage Array

Lenovo ThinkSystem DE4200H Hybrid Storage Array is a scalable, hybrid entry-level storage system that is designed to provide performance, simplicity, capacity, security, and high availability for medium to large businesses.

Key benefits include:

- Lower cost, price point replacement with more flexible IO and longer lifespan
- Supports multi-protocol and flexible IO stocking for channel partners
- New products with brand new platform and committed roadmap
- New products with 7years availability to protect customer investment and improve TCO.
- Easy configure and deployment for channel friendly

The Lenovo ThinkSystem DE4200H Hybrid Storage Array offers an increased IO flexibility, better performance than previous DE4000 generation and balanced price.

Figure 5. Lenovo ThinkSystem DE4200H

Learn more about the Lenovo ThinkSystem DE4200F Storage Arrays with these resources:

- DE4200H Storage Array product web page
- DE4200H product guide
- DE4200H DE Series Hybrid Flash Array datasheet
- DE4200H interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

ThinkSystem DB710S FC SAN Switch

The Lenovo ThinkSystem DB710S is purpose-built for small to mid-sized businesses that provides low-cost access to Brocade® Gen 7 Fibre Channel technology.

The DB710S can be deployed in a full-fabric switch mode or in the Brocade Access Gateway mode, which simplifies connecting the switch to existing storage area networks. By utilizing the Fibre Channel N_Port ID Virtualization (NPIV) standard, Brocade Access Gateway mode can connect to the core SAN switches as a transparent edge switch, simplifying SAN fabric configuration and management, while connecting physical and virtual servers directly to larger SAN fabrics. Key benefits of Brocade Access Gateway mode include the following:

- Improved scalability for large or rapidly growing server and virtual server environments.
- Reduced management of the network edge, since Brocade Access Gateway does not have a domain identity and appears transparent to the core fabric.
- Support for heterogeneous SAN configurations without reduced functionality for server connectivity.

The DB710S is an affordable Gen 7 entry point that starts at just eight ports, with the ability to scale on demand up to 24 ports as client environments grow.

Figure 6. The Lenovo ThinkSystem DB710S

Learn more about the The Lenovo ThinkSystem DB710S with these resources:

- DB710S Storage Array product web page
- DB710S product guide
- DB710S datasheet
- DB710S interactive 3D tour
- Lenovo Storage Interoperation Center (LSIC)

Related product families

Product families related to this document are the following:

- DB Series SAN Switches
- DE Series Storage
- DG Series Storage
- DM Series Storage

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