

DE2000, DE4000, and DE6000 specifications

The technical specifications of the DE2000, DE4000, and DE6000 storage arrays

Lenovo

DE2000, DE4000, and DE6000 specifications

ThinkSystem DE Series specifications

Click the buttons on the left to see the DE Series specifications.

DE2000H



DE4000H



DE6000H

DE4000F

DE6000F



ThinkSystem DE Series specifications

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DE2000H

DE4000H

DE6000H

DE4000F

DE6000F



DE2000H

Form factor	• 2U24 • 2U12
Controller	Dual active-active controller configuration with automatic load balancing
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools
Controller cache	8 GB per controller
Drive bays	Up to four enclosures per system (Controller unit with up to three expansion shelves): • Up to 48 3.5-inch hot-swap drive bays (Up to four 2U12 enclosures) • Up to 96 2.5-inch hot-swap drive bays (Up to four 2U24 enclosures) • Intermix of 2U24 and 2U12 enclosures is supported
Storage capacity	Up to 1.47 PB (Ninety-six 15.36 TB 2.5-inch drives)
Host connectivity	Base ports • Dual 16 Gb FC ports • Dual 10 Gb iSCSI ports (optional)

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DE2000H	Host connectivity (per controller)	• Dual 10 Gb FC ports • Dual 10 Gb iSCSI ports (optional) - Optional HIC ports • Two 12 Gb SAS ports • Two 1 / 10 Gb iSCSI RJ-45 ports
DE4000H	Standard software features	• Dynamic Disk Pools • SSD read cache • Snapshots (up to 128 targets) • Volume copy • Thin provisioning
DE6000H	Optional software features	• Snapshots (up to 512 targets) • Asynchronous mirroring
DE4000F		
DE6000F	Configuration maximums	• Maximum storage capacity: 1.46 PB • Maximum number of logical volumes: 512 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ○ RAID 0, 1/10: 240 ○ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20



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DE2000H	Optional software features	• Snapshots (up to 512 targets) • Asynchronous mirroring
DE4000H	Configuration maximums	• Maximum storage capacity: 1.46 PB • Maximum number of logical volumes: 512 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ◦ RAID 0, 1/10: 240 ◦ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20 • Maximum number of drives in a DDP array: 96 (11 drives minimum) • Maximum SSD read cache size: 5 TB • Maximum number of hosts: 256 • Maximum number of snapshots: 512 (requires an optional license) • Maximum number of mirroring pairs: 32 (requires an optional license)
DE6000H		
DE4000F		
DE6000F	Cooling module	Redundant cooling with the fans that are built into power supplies
	Power supply	Two redundant hot-swap power supplies



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DE2000H

DE4000H

DE6000H

DE4000F

DE6000F



	DE4000H
Form factor	• 4U60 • 2U24 • 2U12
Controller	Dual active-active controller configuration with automatic load balancing
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools
Controller cache	8 GB per controller
Drive bays	Up to eight enclosures per system (Controller unit with up to three 4U60 or seven 2U24 / 2U12 expansion shelves): • Up to 192 3.5-inch hot-swap drive bays (Up to one 2U12 and three 4U60 enclosures) • Up to 192 2.5-inch hot-swap drive bays (Up to eight 2U24 enclosures) • Intermix of 2U24, 2U12, and 4U60 enclosures is supported for a total of up to 192 drives per system
Storage capacity	Up to 2.3 PB (192x 12 TB SAS HDDs)
	Base ports

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DE2000H	Host connectivity (per controller)	• Dual 10 Gb iSCSI ports (optional) • Optional HIC ports • Four 12 Gb SAS ports • Four 10 / 25 Gb iSCSI ports • Four 8 / 16 / 32 Gb FC ports • Four 10 Gb iSCSI or 8 / 16 Gb FC ports
DE4000H	Standard software features	• Dynamic Disk Pools • SSD read cache • Snapshots (up to 128 targets) • Volume copy • Thin provisioning
DE6000H	Optional software features	• Snapshots (up to 512 targets) • Synchronous Mirroring (FC only) • Asynchronous mirroring
DE4000F	Configuration maximums	• Maximum storage capacity: 2.3 PB • Maximum number of logical volumes: 512 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ◦ RAID 0, 1/10: 192 ◦ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20
DE6000F		



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DE2000H

DE4000H

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DE6000F



DE6000H

Form factor	• 4U60 • 2U24
Controller	Dual active-active controller configuration with automatic load balancing
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools
Controller cache	16 GB per controller
Drive bays	Up to eight enclosures per system (Controller unit with up to seven 4U60 or seven 2U24 expansion shelves): • Up to 480 3.5-inch hot-swap drive bays (Up to four 4U60 enclosures) • Up to 192 2.5-inch hot-swap drive bays (Up to eight 2U24 enclosures) • Intermix of 2U24 and 4U60 enclosures is supported
Storage capacity	Up to 5.76 PB (480 12 TB SAS HDDs)
	Base ports • Dual 16 Gb FC ports • Dual 10 Gb iSCSI ports (optional)

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DE2000H	Standard software features	• Dynamic Disk Pools • SSD read cache • Snapshots (up to 128 targets) • Volume copy • Thin provisioning
DE4000H	Optional software features	• Snapshots (up to 2048 targets) • Synchronous mirroring (FC only) • Asynchronous mirroring
DE6000H	Configuration maximums	• Maximum storage capacity: 5.76 PB • Maximum number of logical volumes: 2048 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ◦ RAID 0, 1/10: 240 ◦ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20 • Maximum number of drives in a DDP array: 240 (11 drives minimum) • Maximum SSD read cache size: 5 TB • Maximum number of hosts: 512 • Maximum number of snapshots: 2048 (requires an optional license) • Maximum number of mirroring pairs: 128 (requires an optional license)
DE4000F		
DE6000F		



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DE2000H

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DE4000F

DE6000F



DE4000F

Form factor	2U24
Controller	Dual active-active controller configuration with automatic load balancing
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools
Controller cache	8 GB per controller
Drive bays	Up to eight enclosures per system (Controller unit with up to seven 2U24 expansion shelves): • Up to 192 2.5-inch hot-swap drive bays
Storage capacity	Up to 2.94 PB (192 15.36 TB SAS SSDs)
Host connectivity (per controller)	Base ports • Dual 16 Gb FC ports • Dual 10 Gb iSCSI ports (optional) Optional HIC ports • Four 12 Gb SAS ports

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DE2000H

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Standard software features	• Dynamic Disk Pools • Snapshots (up to 512 targets) • Volume copy • Thin provisioning • Asynchronous mirroring • Synchronous Mirroring (FC only)
Configuration maximums	• Maximum storage capacity: 2.94 PB • Maximum number of logical volumes: 512 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ◦ RAID 0, 1/10: 192 ◦ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20 • Maximum number of drives in a DDP array: 192 (11 drives minimum) • Maximum number of hosts: 256 • Maximum number of snapshots: 512 • Maximum number of mirroring pairs: 32
Cooling module	Redundant cooling with the fans that are built into power supplies

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	DE6000F
DE2000H	Form factor 2U24
DE4000H	Controller Dual active-active controller configuration with automatic load balancing
DE6000H	RAID levels RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools
DE4000F	Controller cache 64 GB per controller
DE6000F	Drive bays Up to eight enclosures per system (Controller unit with up to seven 2U24 expansion shelves): • Up to 192 2.5-inch hot-swap drive bays
	Storage capacity Up to 2.94 PB (192 15.36 TB SAS SSDs)
	Host connectivity (per controller) Base ports • Dual 16 Gb FC ports • Dual 10 Gb iSCSI ports (optional) Optional HIC ports • Four 12 Gb SAS ports • Four 10 / 25 Gb iSCSI ports



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DE2000H

DE4000H

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DE6000F



Standard software features	• Dynamic Disk Pools • Snapshots (up to 2048 targets) • Volume copy • Thin provisioning • Asynchronous mirroring • Synchronous Mirroring (FC only)
Configuration maximums	• Maximum storage capacity: 2.94 PB • Maximum number of logical volumes: 2048 • Maximum logical volume size: 2 PB • Maximum thin-provisioned logical volume size (DDP only): 256 TB • Maximum number of drives in a RAID volume group: ◦ RAID 0, 1/10: 192 ◦ RAID 3, 5, 6: 30 • Maximum number of DDP arrays: 20 • Maximum number of drives in a DDP array: 192 (11 drives minimum) • Maximum number of hosts: 512 • Maximum number of snapshots: 2048 • Maximum number of mirroring pairs: 128
Cooling module	Two hot-swap cooling modules (4U60 only)