DM7100 Series and DM240N features and specifications

Product features, technical specifications

Features and specifications

DM Series storage	DM3000H	DM5000H	DM5000F	DM7000H	DM7000F	DM7100H	DM7100F
Form factor	2U	2U	2U	3U	3U	4U	4U
CPU cores	12	24	24	32	32	40	40
Physical memory	64 GB	64 GB	64 GB	256 GB	256 GB	256 GB	256 GB
Max drive count	144	144	144	480	384	720	480
NVDIMM/NVRAM	8 GB	8 GB	8 GB	16 GB	16 GB	32 GB	32 GB
Onboard/Pre-configured ports							
100 GbE	N/A	N/A	N/A	N/A	N/A	4	4
25 GbE	N/A	N/A	N/A	N/A	N/A	4 or 12	4 or 12
32 Gb FC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 GB FC	N/A	N/A	N/A	N/A	N/A	0 or 8	0 or 8
40 GbE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 GbE	4	4	4	4	4	N/A	N/A

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NVDIMM/NVRAM	8 GB	8 GB	8 GB	16 GB	16 GB	32 GB	32 GB
Onboard/Pre-configured ports							
100 GbE	N/A	N/A	N/A	N/A	N/A	4	4
25 GbE	N/A	N/A	N/A	N/A	N/A	4 or 12	4 or 12
32 Gb FC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16 GB FC	N/A	N/A	N/A	N/A	N/A	0 or 8	0 or 8
40 GbE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 GbE	4	4	4	4	4	N/A	N/A
10 GBASE-T	0 or 8	0 or 8	0 or 8	4	4	N/A	N/A
UTA2	0 or 8	0 or 8	0 or 8	8	8	N/A	N/A
SAS	4 (12 Gb)	4 (12 Gb)	4 (12 Gb)	8 (12 Gb)	8 (12 Gb)	8 (12 Gb)	8 (12 Gb)
I/O expansion slots	N/A	N/A	N/A	0 or 4	4	10	10
ONTAP support	9.4 RC1+	9.4 RC1+	9.4 RC1+	9.1 GA+	9.1 RC1+	9.7 GA+	9.7 GA+

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DM Series storage cluster node limits

The following tables compare cluster node limits for the DM3000, DM5000, DM7000, and DM7100.

Maximum cluster nodes for homogeneous clusters	NAS	SAN
DM7100	24	12

Maximum cluster nodes for heterogeneous (mixed) clusters	NAS	SAN
DM7000 DM5000 DM3000	24	12

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DM7100 Series aggregate and volume sizes

This table compares the aggregate and volume sizes of the DM7100H and DM7100F.

DM7100 series	DM7100H	DM7100F
Maximum number of volumes	2,500	2,500
Maximum aggregate size	400 TiB	800 TiB
Maximum volume size	100 TiB	100 TiB
Maximum root aggregate size	185 GiB	185 GiB
Maximum root volume size	150 GiB	150 GiB

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DM7100 Series supported expansion units

This table provides expansion unit information for the DM7100H and DM7100F.

DM7100 Series	DM7100H	DM7100F
DM240N (7Y62)	No	Yes, maximum of 2
DM120S (7Y59)	Yes, maximum of 60	No
DM240S (7Y58)	Yes, maximum of 30	Yes, SSD only, maximum of 20
DM600S (7Y43)	Yes, maximum of 12	No

Note: Refer to the Lenovo Press Product Guide for the latest information about DM7100 Series specifications.

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DM7100 controller adapter cards

Each DM7100 Series controller module has five PCIe slots, and there are up to 10 slots in an HA pair. All the adapters must be installed in pairs – one per controller.
- For the DM7100F, optional adapter cards should be installed in the expansion slots in the following order: Slot 2, Slot 4, Slot 1, Slot 5.
  - For configurations with two DM240N expansion enclosures, a pair of additional 100 GbE RoCE adapter cards is required for dual HA direct connectivity to the expansion enclosures, and these cards must be installed in Slot 5 of the DM7100F controllers.
- For the DM7100H, optional adapter cards should be installed in the expansion slots in the following order: Slot 2, Slot 4, Slot 3, Slot 1, Slot 5.

Note: Refer to the Lenovo Press Product Guide for the latest information about DM7100 Series specifications.

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