

Product overview

Product description and front, rear, and inside views



DM Series storage systems product overview

The Lenovo ThinkSystem DM Series is a mid-range storage product line that is managed by an ONTAP operating system and includes both All Flash Array (AFA) and Hybrid Array models. The DM Series supports both file and block storage features with a dual controller high availability (HA) system, scale-up and scale-out architecture, and multiprotocol I/O support to provide a high-performance and low-latency IT infrastructure. The Lenovo ThinkSystem DM Series includes the following models:

Scroll down for more information

Marketing name	Machine Type	Warranty	Form factor
DM3000H	7Y42	One year	2U controller supporting 12 3.5-inch HDD slots / dual controller / hybrid
	7D7U	Three year	
DM5000F	7Y41	One year	2U controller supporting 24 2.5-inch SSD drives / dual controller / all flash
	7D7W	Three year	
DM5000H	7Y57	One year	2U controller supporting 24 2.5-inch HDD slots / dual controller / hybrid

DM Series storage systems product overview

The Lenovo ThinkSystem DM Series is a mid-range storage product line that is managed by an ONTAP operating system and includes both All Flash Array (AFA) and Hybrid Array models. The DM Series supports both file and block storage features with a dual controller high availability (HA) system, scale-up and scale-out architecture, and multiprotocol I/O support to provide a high-performance and low-latency IT infrastructure. The Lenovo ThinkSystem DM Series includes the following models:

Scroll down for more information

Marketing name	Machine Type	Warranty	Form factor
	7D7W	Three year	2U controller supporting 24 2.5-inch HDD slots / dual controller / hybrid
DM5000H	7Y57	One year	
	7D7V	Three year	
DM7000F	7Y40	One year	3U controller enclosure / dual controller / all flash
DM7000H	7Y56	One year	3U controller enclosure / dual controller / hybrid

DM Series storage systems expansion enclosure product list

Marketing name	Machine Type	Warranty	Form factor
DM120S	7Y59	One year	2U expansion enclosure with 12 Large Form Factor (LFF) 3.5-inch hot-swap drives
	7D7X	Three year	
DM240S	7Y58	One year	2U expansion enclosure with 24 Small Form Factor (SFF) 2.5-inch hot-swap drives
	7D7Y	Three year	
DM600S	7Y43	One year	4U expansion enclosure with five drawers, each with 12 Large Form Factor (LFF) hot-swap drive bays
	7D7Z	Three year	

Front views

Click the buttons to see the front views

DM5000F

DM5000H

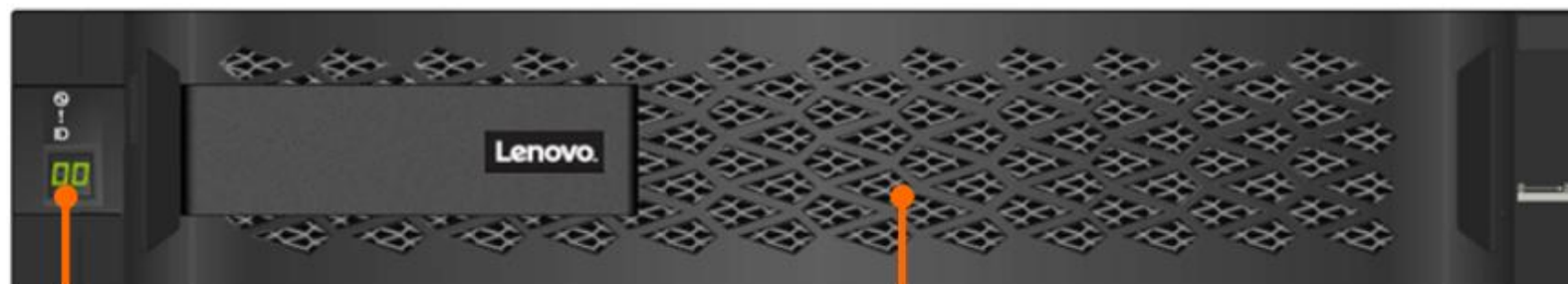
DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



With cover

System LEDs for system power, system fault, location, and enclosure ID

24 internal SSD slots (DM5000F)



Without cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

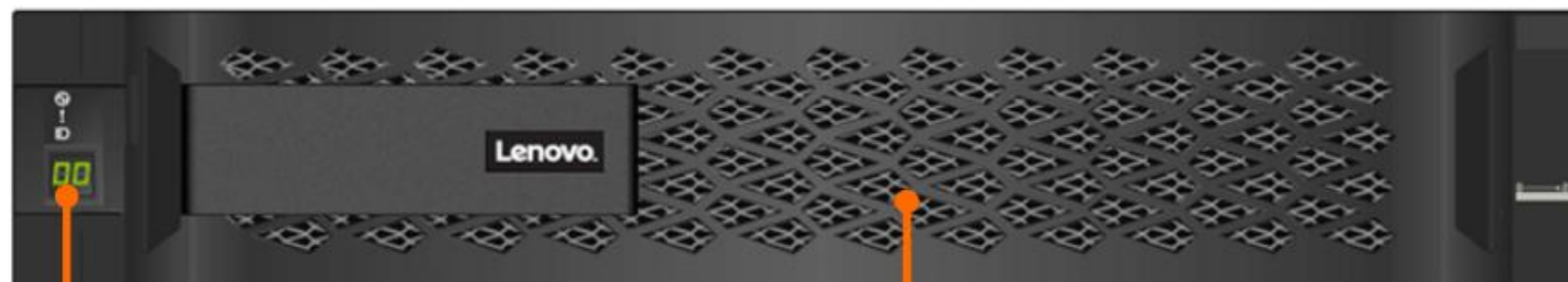
DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



With cover

System LEDs for system power, system fault, location, and enclosure ID

24 internal HDD slots (DM5000H)



Without cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

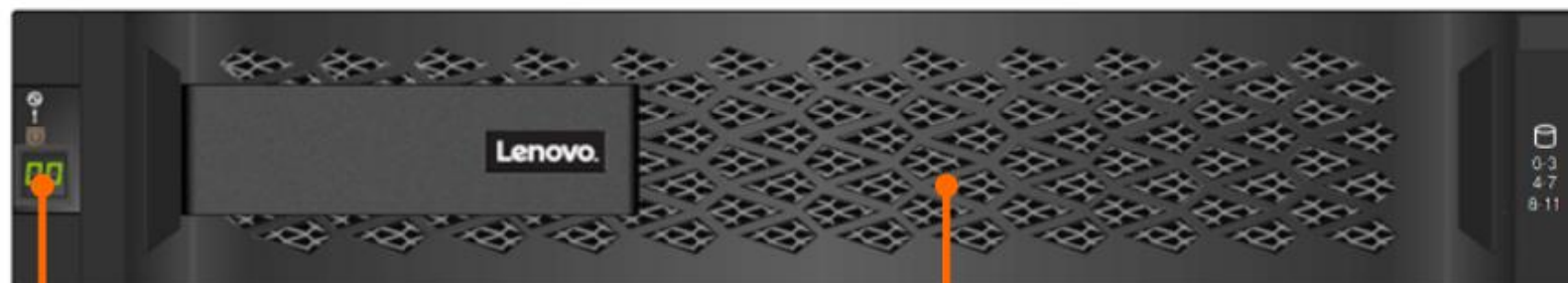
DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



With cover

System LEDs for system power, system fault, location, and enclosure ID

12 internal HDD slots



Without cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

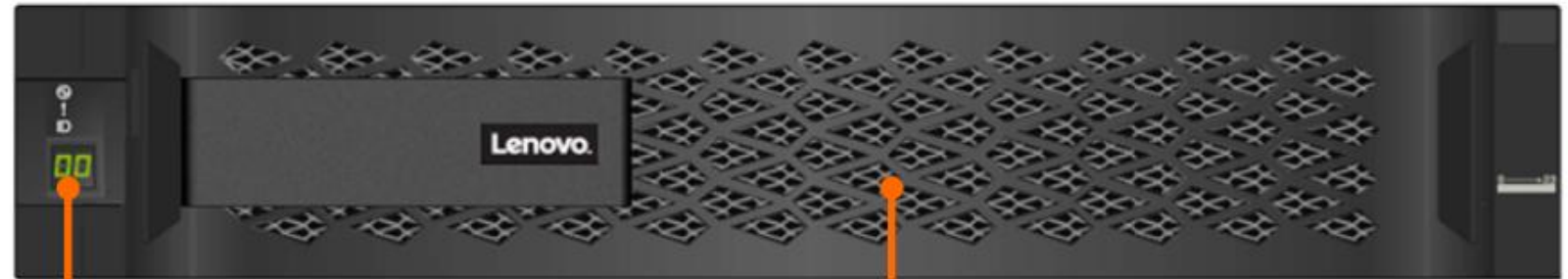
DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



With cover

System LEDs for system power, system fault, location, and enclosure ID

24 internal HDD slots



Without cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

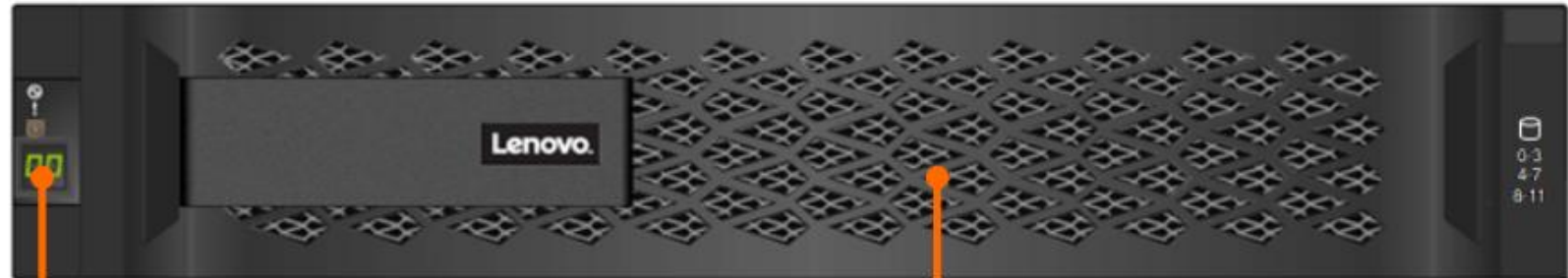
DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



With cover

System LEDs for system power, system fault, location, and enclosure ID

12 internal HDD slots



Without cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

DM3000H

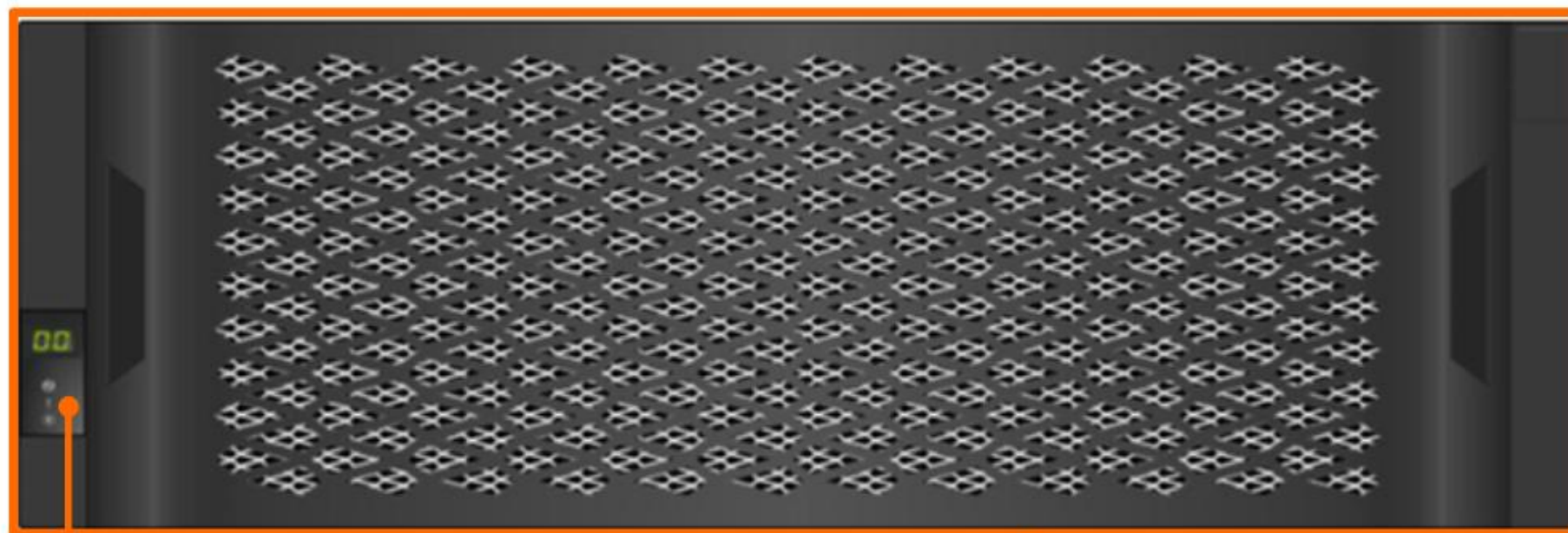
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The DM600S is a 4U expansion enclosure that supports up to 60 3.5-inch NL-SAS drives.



Enclosure ID and
status LEDs

Front bezel

[Click here to see the
DM600S without the cover](#)

Front views

Click the buttons to see the front views

DM5000F

DM5000H

DM3000H

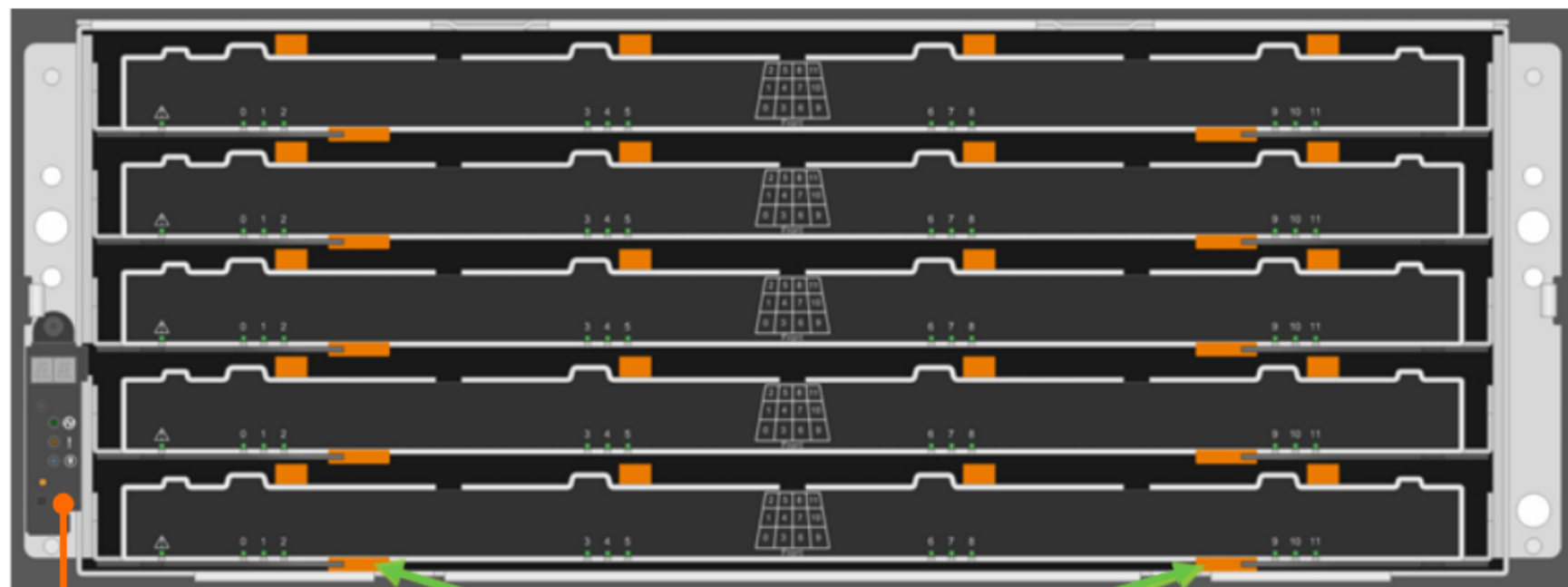
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The DM600S expansion enclosure has five drive drawers, with each drive drawer containing 12 LFF hot-swap drives. [Click here to view the drive drawer](#).



Drawer 1

Drawer 5

Enclosure ID and
status LEDs

Drawer release levers

[Click here to see DM600S
with the cover](#)

Front views

Click the buttons to see the front views

DM5000F

DM5000H

DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series

Lenovo



Advanced multiprocessor architecture
All 32 cores in an HA pair are fully utilized to
deliver consistent high performance and
advanced data management in parallel

System LEDs for system power, system
fault, and controller activity status

Click here to see DM7000
series without the cover

Front views

Click the buttons to see the front views

DM5000F

DM5000H

DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series



Fan 1

Fan 2

Fan 3

Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

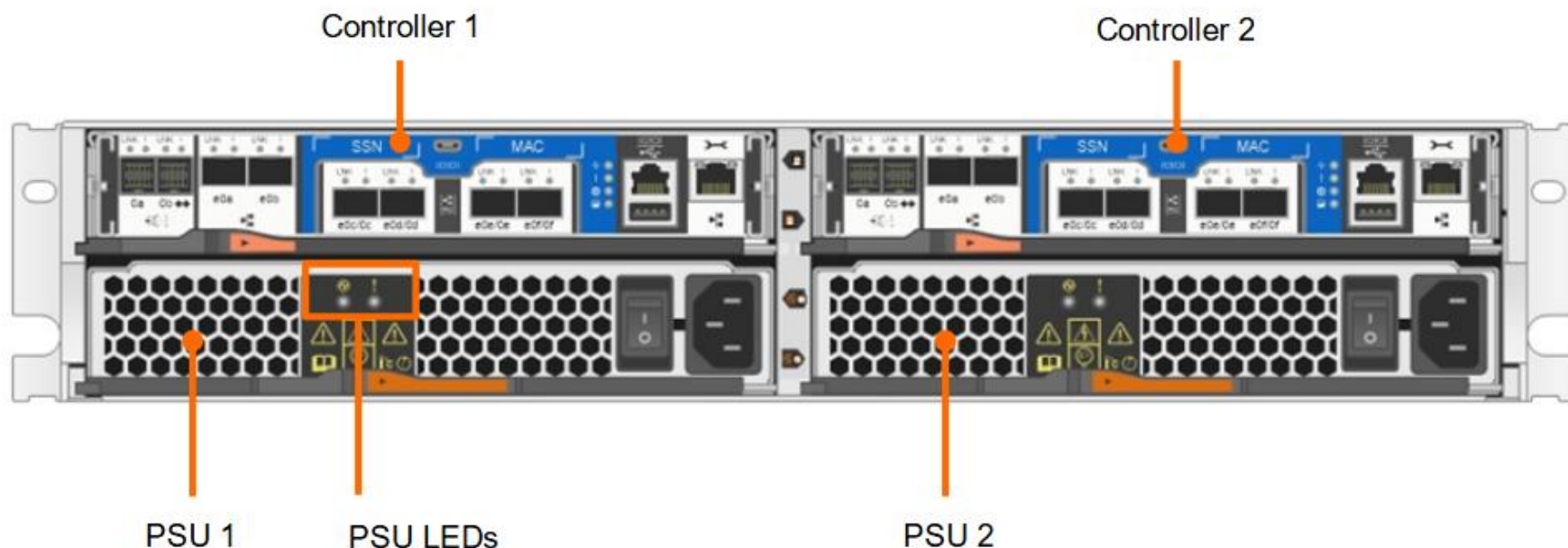
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

There are two power supply units (PSUs) and two controllers, and the DM5000F only ships with the Unified Target Adapter 2 (UTA2) configuration.



The dual 80 Plus Platinum-rated hot-plug power supplies provide enclosure and temperature monitoring

Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The DM5000H is available with either four UTA2 or four 10 GbE BASE-T onboard ports

UTA2 configuration



10 GbE BASE-T configuration



Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The DM3000H is available with either four UTA2 or four 10 GbE BASE-T onboard ports

UTA2 configuration



10 GbE BASE-T configuration



Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

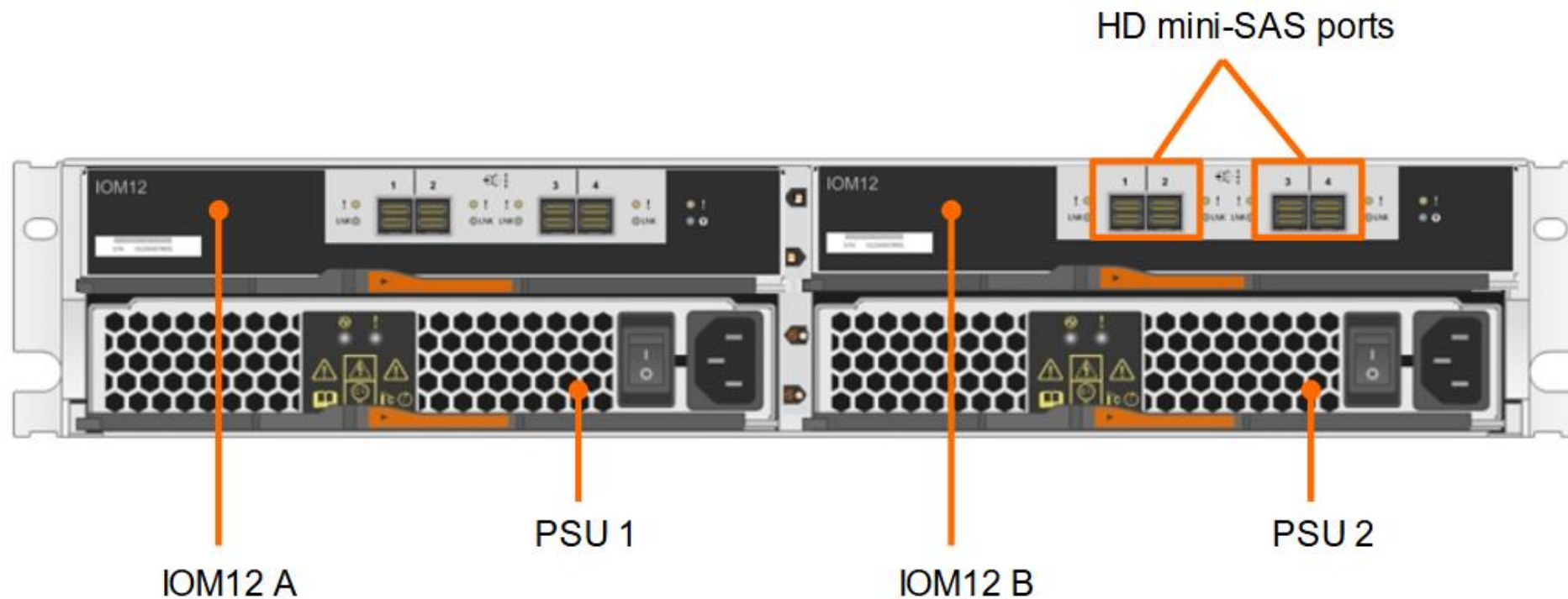
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The whole IOM is a single FRU.



Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

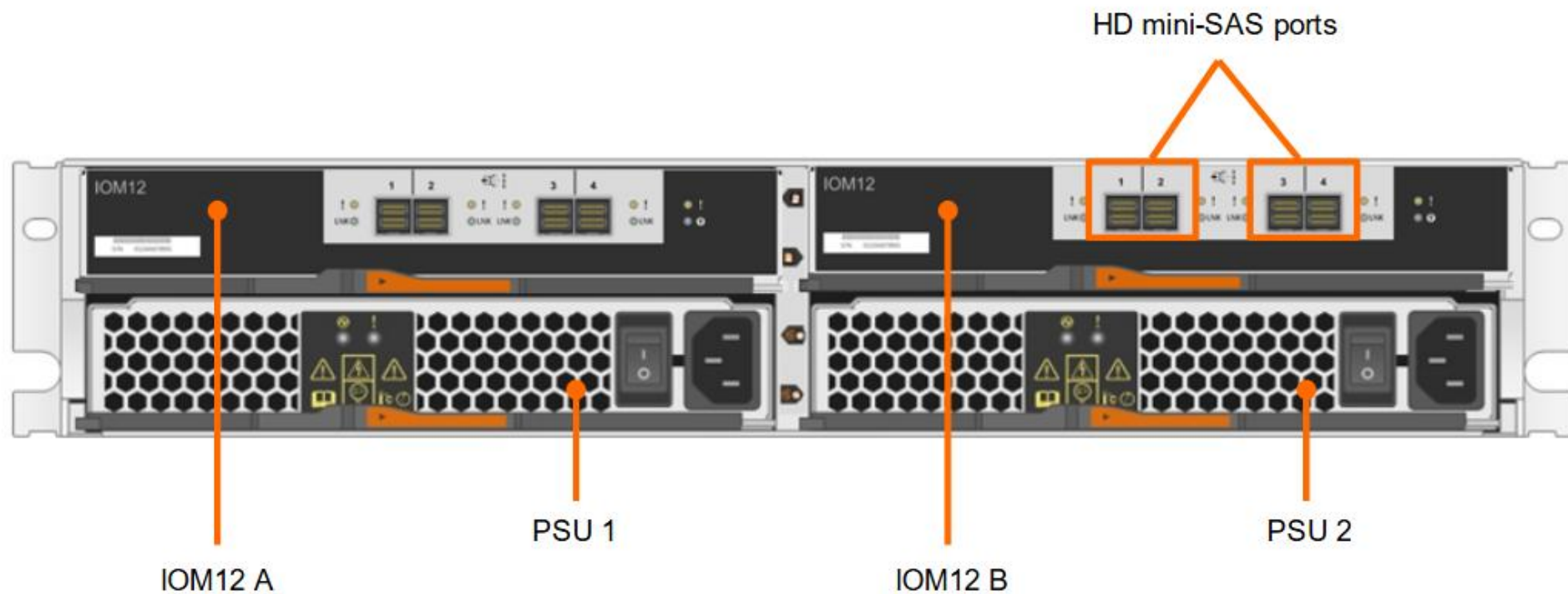
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

The whole IOM is a single FRU.



Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

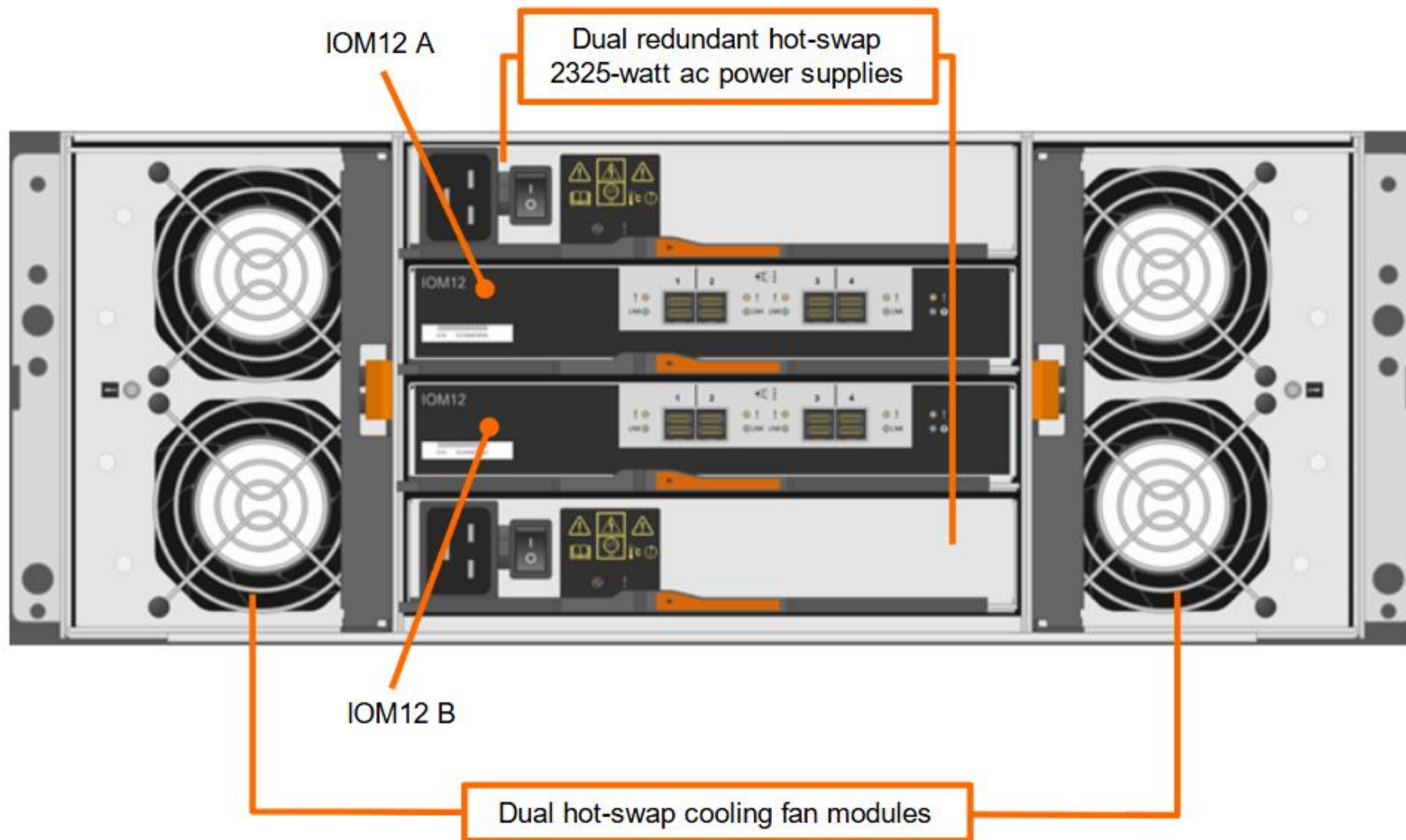
DM240S

DM120S

DM600S

DM7000F/DM
7000H series

Lenovo



Rear views

Click the buttons to see the rear views

DM5000F

DM5000H

DM3000H

DM240S

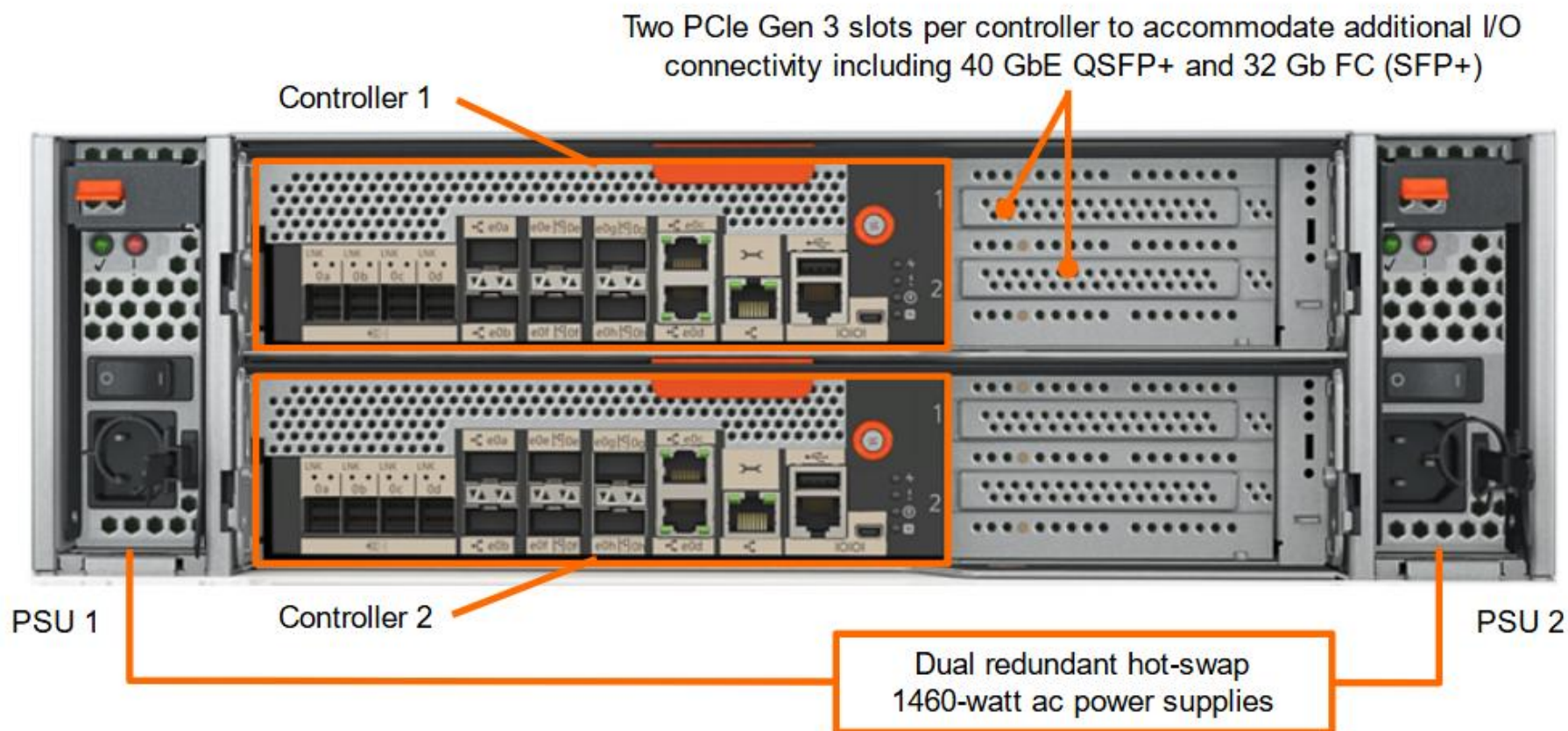
DM120S

DM600S

DM7000F/DM
7000H series

Lenovo

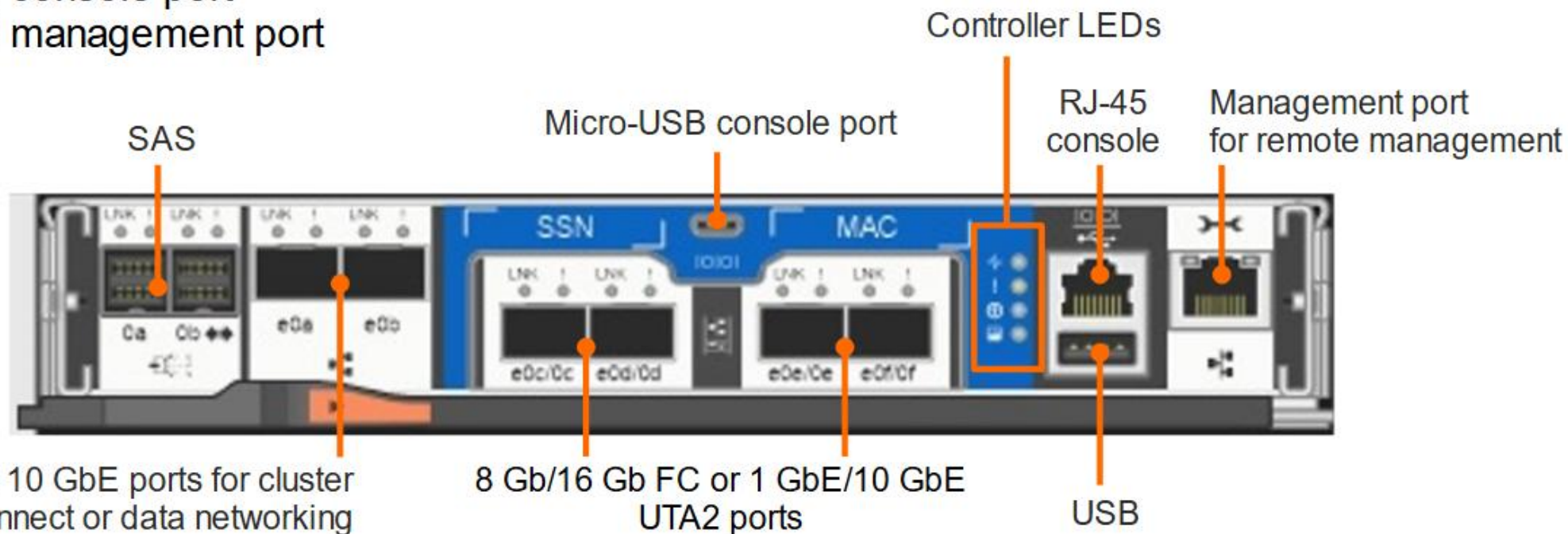
There are two power supply units (PSUs) and two controllers. Each controller has two PCIe Gen 3 slots.



Controller module – UTA2 configuration

The controller has the following onboard I/O ports:

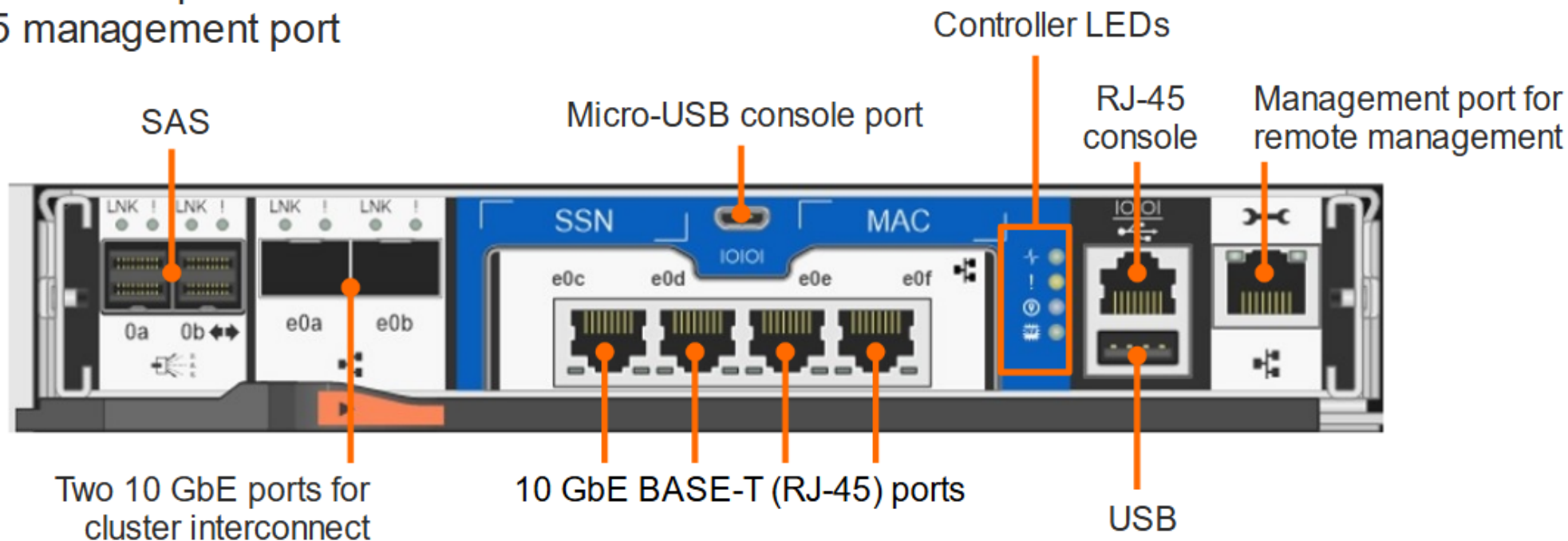
- Two 10 GbE ports for cluster interconnect
- Four 16 Gb FC or 1 GbE/10 GbE UTA2 ports for host connectivity
- Two 12 Gb mini-HD SAS ports for external storage attachment – the DM120S, DM240S, and DM600S are supported (the DM5000F is not supported)
- One Type micro-B USB console port – 115200 baud rate
- One Type-A USB port – read only for net boot and OS update
- One RJ-45 console port
- One RJ-45 management port



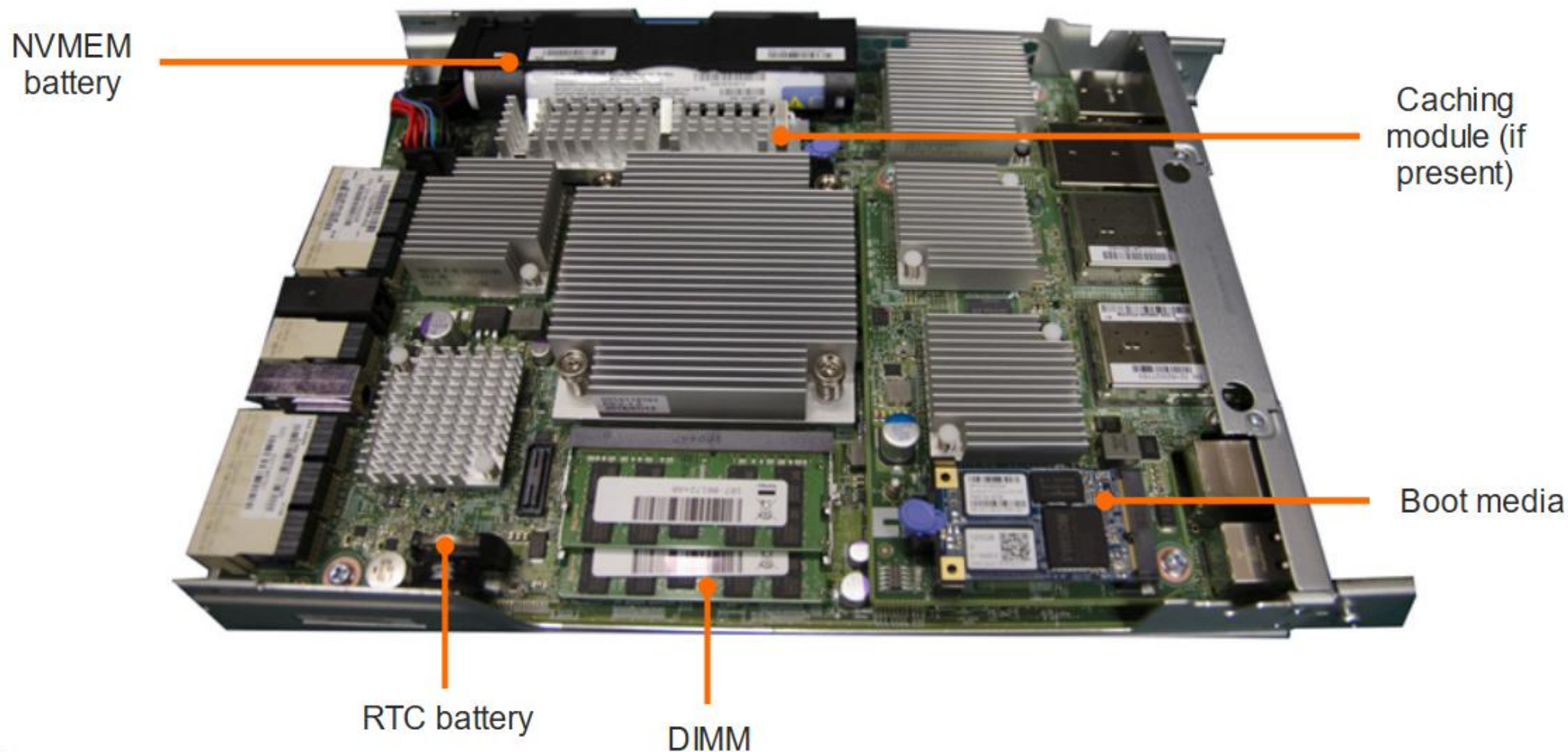
Controller module – 10 GbE BASE-T configuration

The controller has the following onboard I/O ports:

- Two 10 GbE ports for cluster interconnect
- Four 1 GbE or 10 GbE BASE-T RJ-45 ports for host connectivity
- Two 12 Gb mini-HD SAS ports for external storage attachments the DM120S, DM240S, and DM600S are supported
- One Type micro-B USB console port – 115200 baud rate
- One Type-A USB port – read only for net boot and OS update
- One RJ-45 console port
- One RJ-45 management port

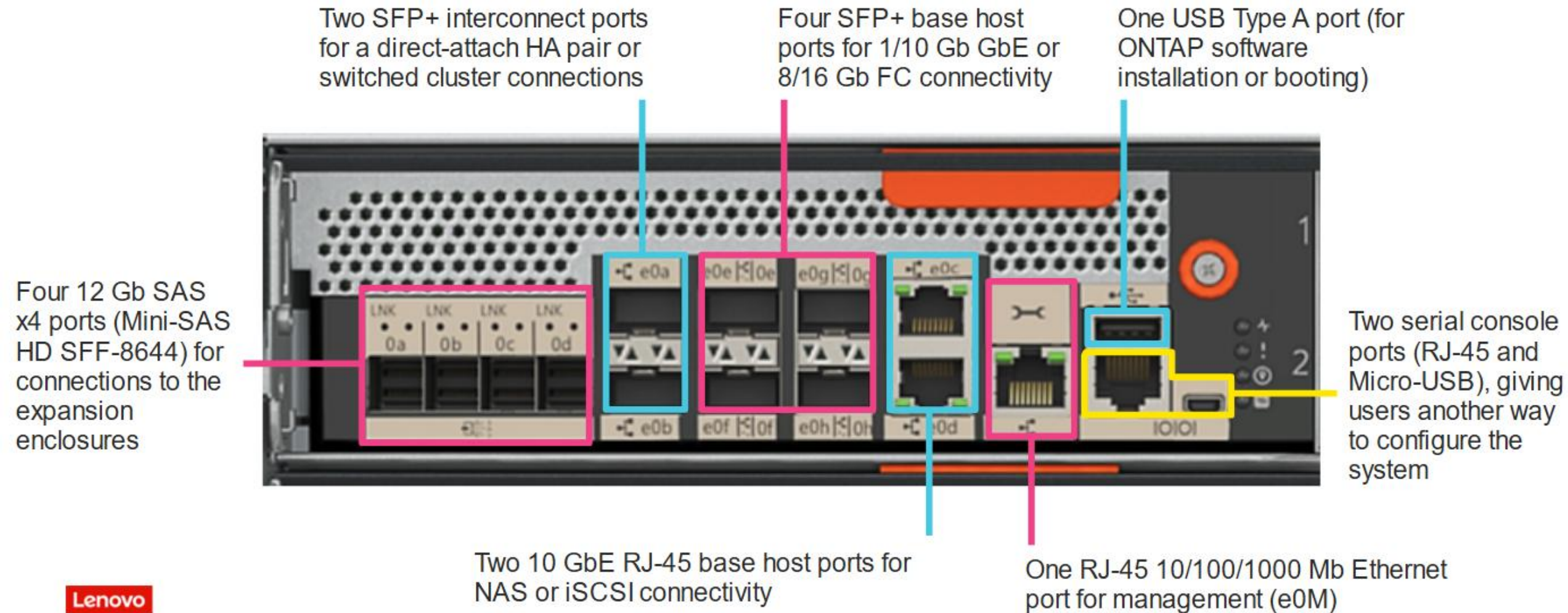


Controller module inside view – DM3000 and DM5000 series



DM7000 series controller view

The DM7000 series has two redundant hot-swappable controllers, and each comes with the following ports:



DM7000 series controller inside view with air duct



[Click here to see the inside view without the air duct](#)

DM7000 series controller inside view

