

Smarter technology for all

Servicing the ThinkSystem DM3010H storage system

Lenovo

ES62609

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Prerequisites

[ES71914C - Servicing the ThinkSystem DM Series storage](#)

[ES42026 - ONTAP 9.7 Administration](#)

Objectives

After completing the course, you will be able to:

- Describe the ThinkSystem DM3010H and its components
- List the features and specifications
- Describe the cable connections for the DM3010H
- Provide an update of the ONTAP software bundle
- Describe the problem determination steps and explain how to troubleshoot issues with the DM3010H
- Describe the FRU replacement procedures
- Describe the software and firmware upgrade procedures

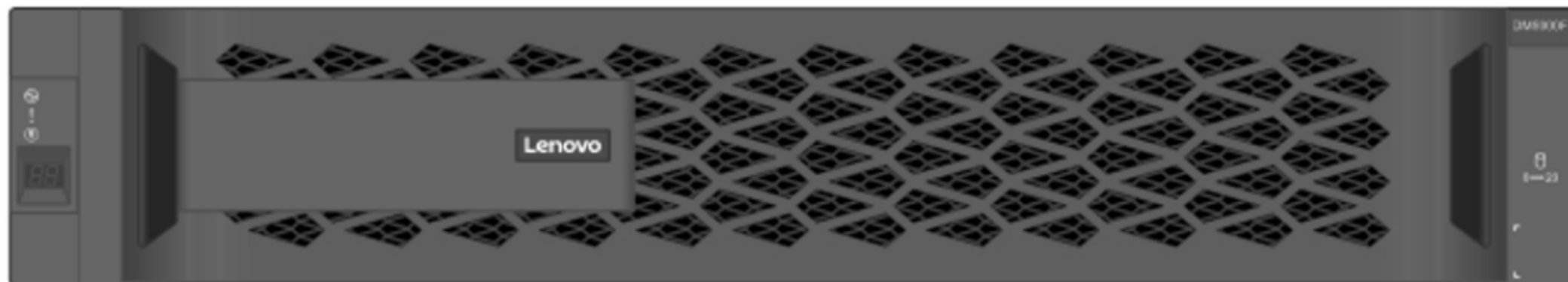
Product overview

Product description and front, rear, and inside views

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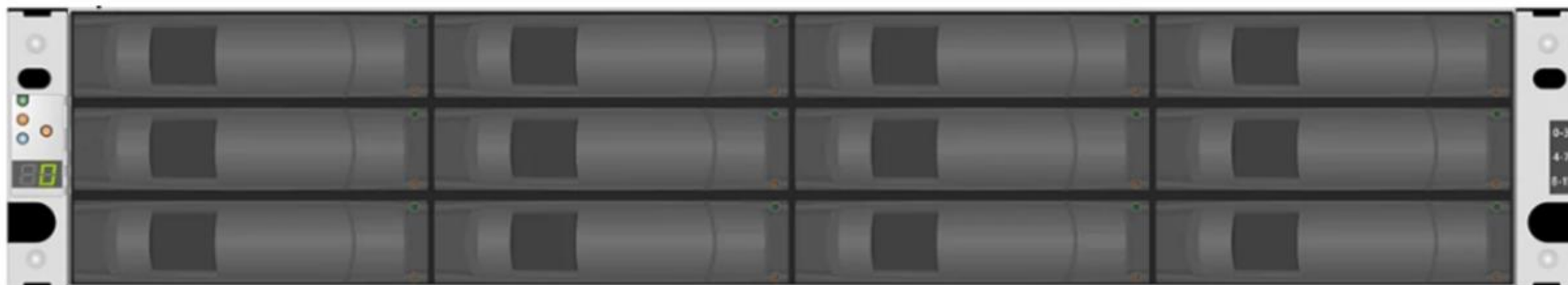
Product overview

The DM3010H (Model: 7DCV) is an entry-level hybrid storage array designed to replace the DM3000H. It is a 2U storage enclosure with 128 GB of memory (64 GB per controller) supporting twelve 3.5-inch internal drives. Each high-availability (HA) pair can accommodate up to 144 drives. Host interface card connectivity has been upgraded to 32 Gb/FC and 25 GbE, and the cluster interconnect now operates at 25 GbE. The DM3010H runs on ONTAP version 9.13.1P1 or later.



Front view

The front of the DM3010H storage enclosure is equipped with 12 3.5-inch drives.



Rear view

The rear of the DM3010H storage enclosure has two controllers and two hot-swap redundant power supplies.



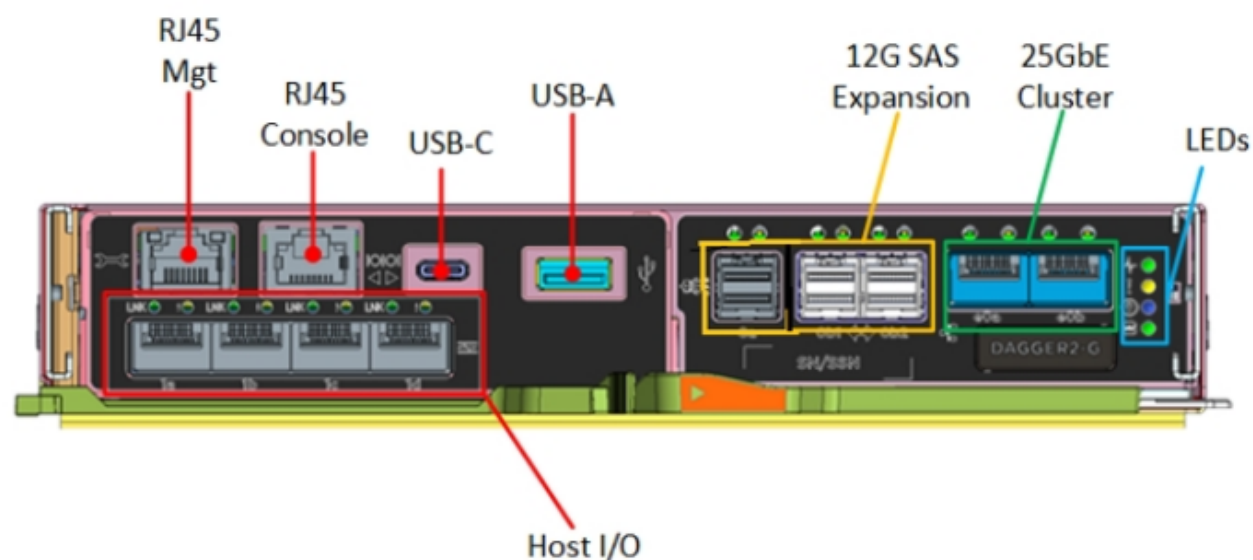
DM3010H controller

Processor and memory (per controller)

- CPU: Eight core, 2.2 GHz
- Memory: 64 GB

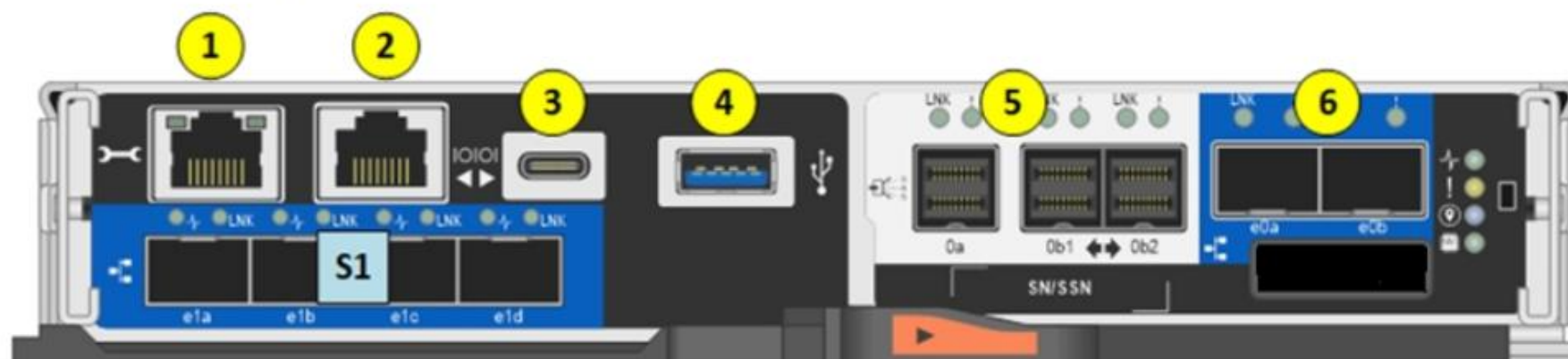
I/O ports (per controller)

- Two RJ45 ports – management and console
- One Type-C USB port – console
- One Type-A USB port – read-only for NetBoot and OS updates
- One mezzanine slot for host connectivity
- Three 12 Gb SAS ports for expansion connectivity
- Two 25 Gb Ethernet ports – HA and cluster interconnect



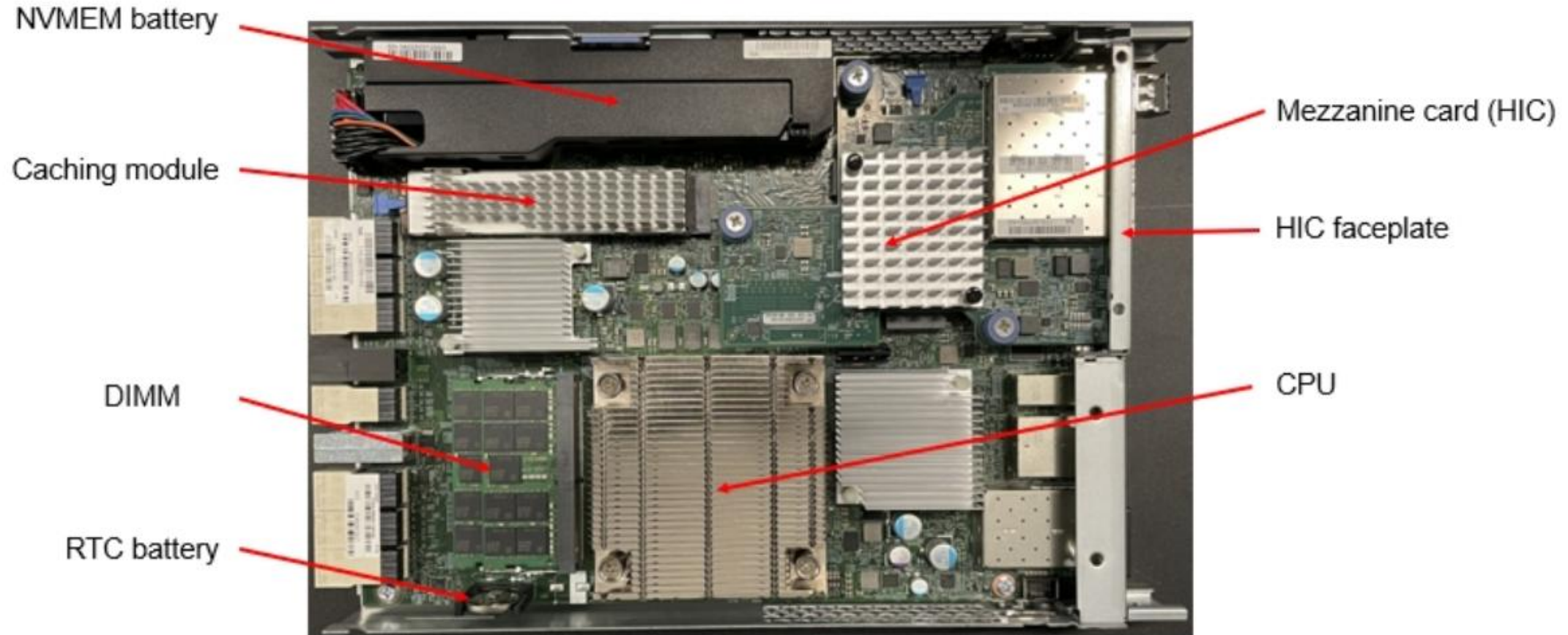
Note: The RJ45 console and USB-C console ports cannot be used simultaneously. Of the three 12 Gb SAS expansion ports, the port on the left is always connected, while the port on the right is not utilized by ONTAP and remains disabled at all times.

DM3010H components per controller



Label	Port Name	Connector	Description	Speed
1	BMC	RJ-45	Management	1 Gbps
2	Management	RJ-45	Serial console	115200 bps
3	CLI	USB-C	Console	
4	Service	USB-A	Service port	
5	SAS port	HD miniSAS	Expansion	12 Gb
6	Cluster port	SFP28	Cluster	25 Gb
S1	HIC port	x16 PCIe	Host interface port	

Controller inside view



Controller inside view – without HIC and faceplate

