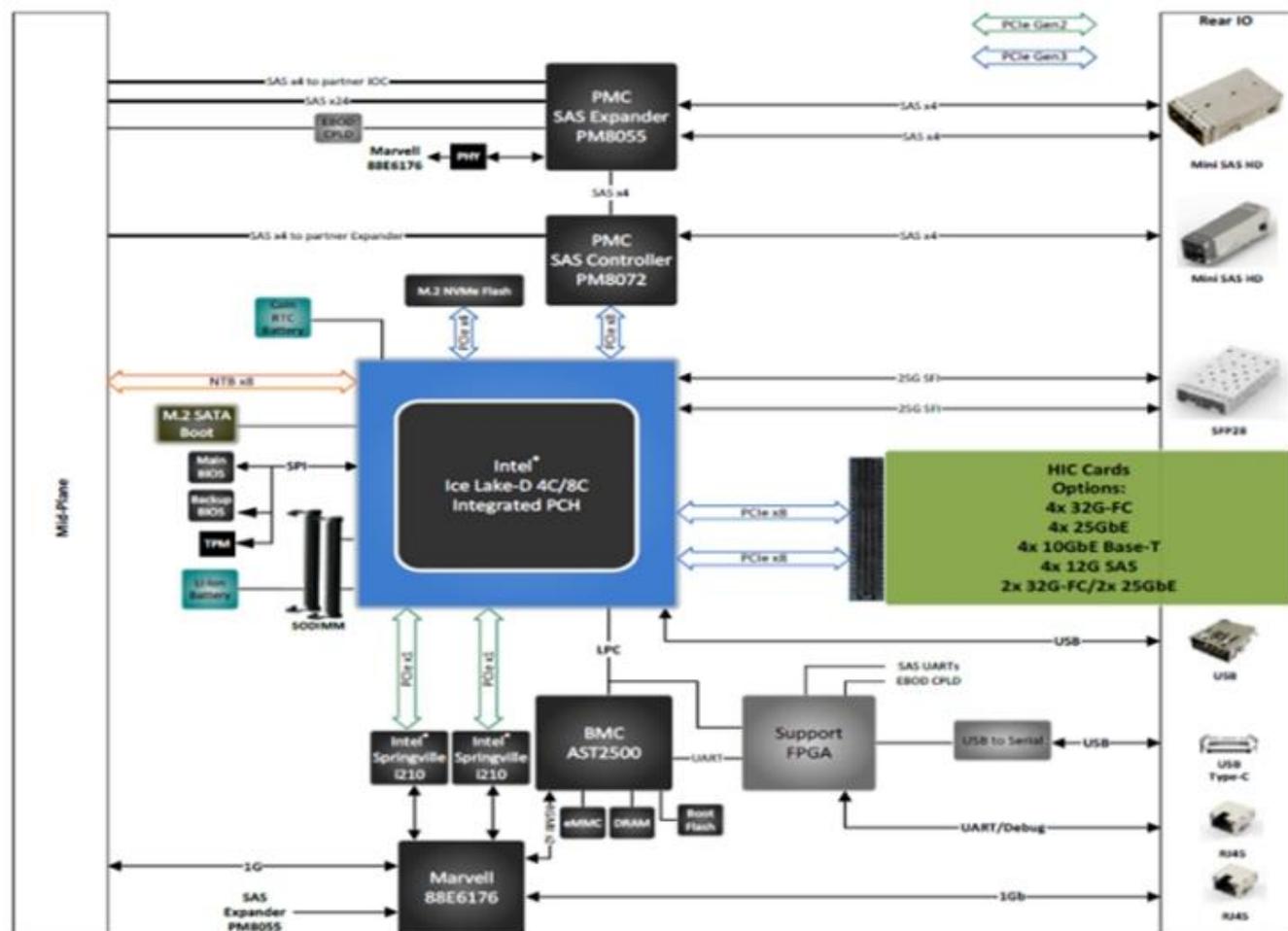


# System configurations and diagrams

Controller block diagrams and cable connections

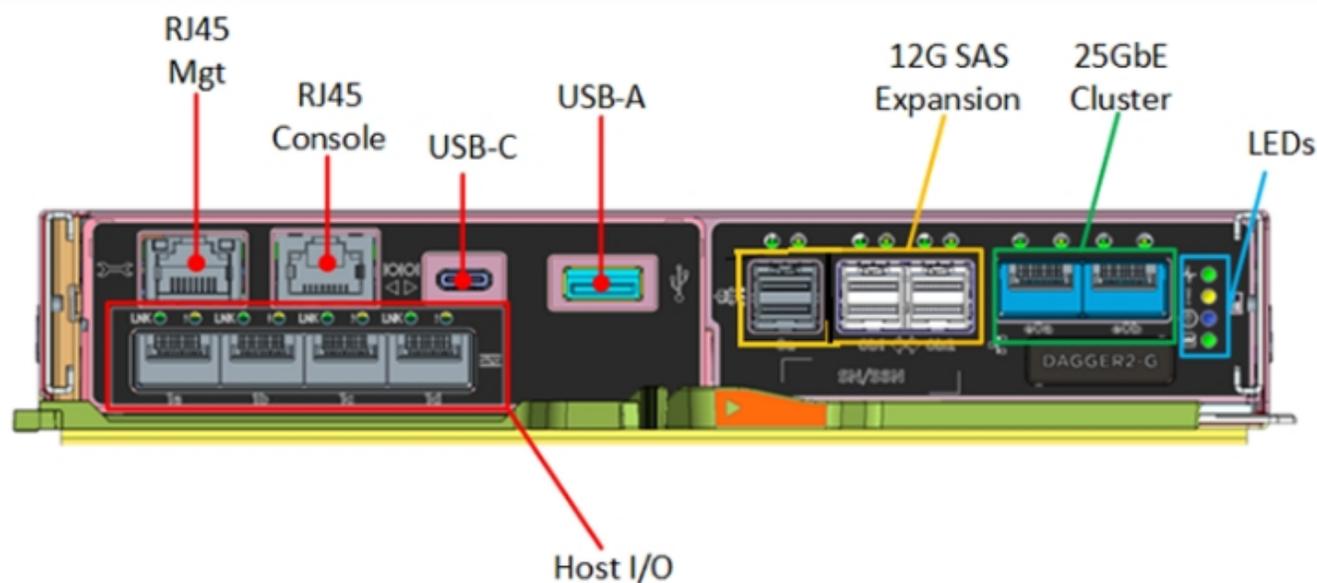
**Lenovo**

# DM3010H controller block diagram



- Intel Ice Lake 8-core 2.2 GHz CPU
- Two 32 G DDR4-2933 ECC SODIMM memory
- 120 GB M.2 SATA SSD boot device
- 1 GB M.2 NVMe SSD Flash

# DM3010H controller HICs

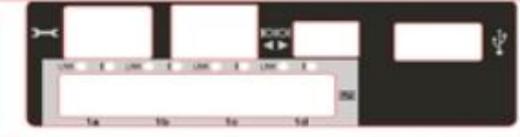
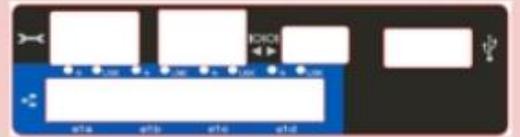


- A maximum of two adapters in a system
- All adapters must be installed in pairs

Host Interface Cards	FRU
32/16 Gb FC, four-port F	03LF438
Two-port 32 Gb FC + two-port 25 GbE	03LE622
25/10 GbE, four ports	02JH640
10GBase-T iSCSI, four ports	03LF440
32/16 Gb FC, four-port NVMe-FC	02JH641

**Note:** The 32/16 Gb FC, four-port NVMe-FC HIC (02JH614) will be enabled after ship support.

# HICs and faceplates

Host Interface Cards (Port labels)	HIC corresponding faceplate
32/16 Gb FC, four-port FC (1a,1b,1c,1d)	
Two-port 32 Gb FC + two-port 25 GbE (1a,1b,e1a,e1b)	
25/10 GbE, four ports (e1a,e1b,e1c,e1d)	
10GBase-T iSCSI, four ports (e1a,e1b,e1c,e1d)	
32/16 Gb FC, four-port NVMe-FC (1a,1b,1c,1d)	

## DM3010H support options

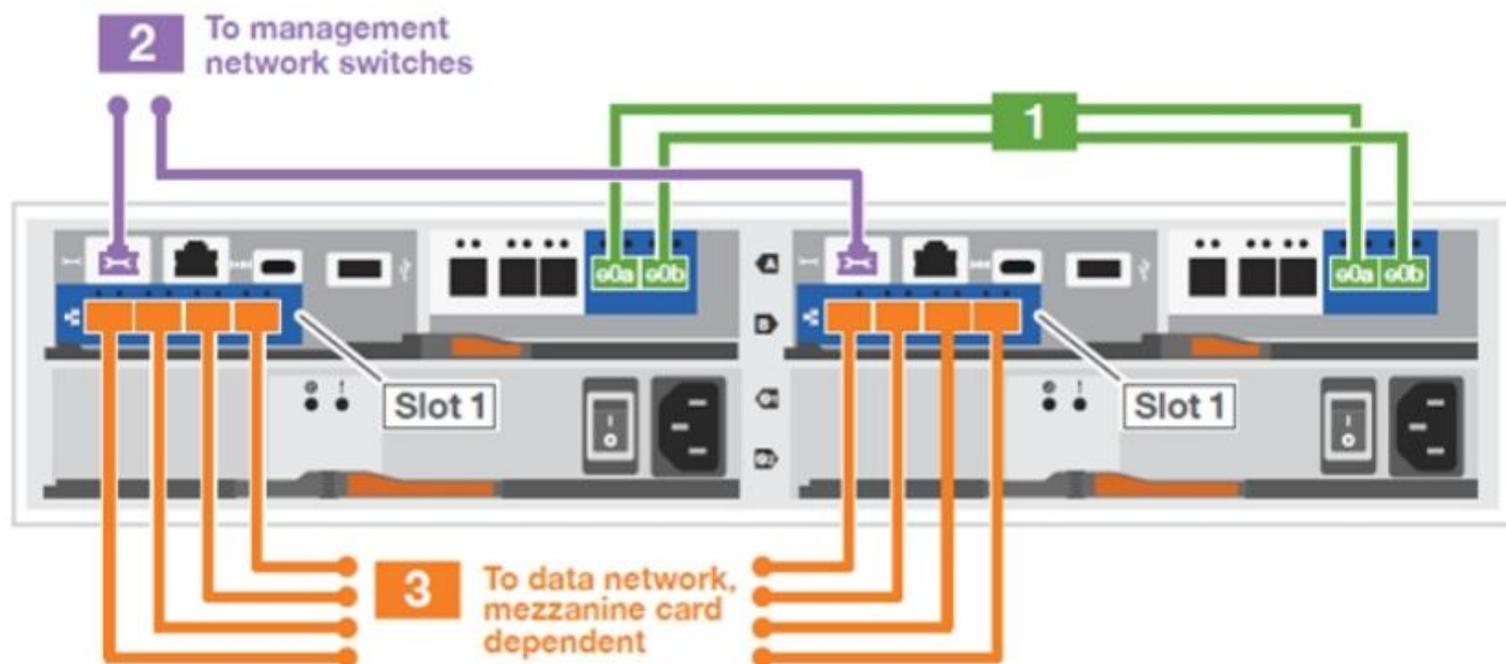
Category	FRU Part Number	Description
HICs	03LF438	32/16 Gb FC, four-port FC – <b>New</b>
	02JH640	Two-port 32 Gb FC + two-port 25 GbE – Existing
	03LE622	25/10 GbE, four ports – <b>New</b>
	03LF440	10GBase-T iSCSI, four ports – <b>New</b>
	02JH641	32/16 Gb FC, four-port NVMe-FC – Existing
Drives	01PG582	4 TB 7.2 K 12 G NL SAS 3.5-inch hot-swap HDD
	01PG581	8 TB 7.2 K 12 Gb NL SAS 3.5-inch hot-swap HDD
	01PG583	10 TB 7.2 K 12 Gb NL SAS 3.5-inch hot-swap HDD
	02JH599	16 TB 7.2 K 12 Gb NL SAS 3.5-inch hot-swap

## DM3010H cables

Cables	Connection type	Connection for
10 Gb Ethernet, SFP28 Network cable		10 Gb Ethernet, SFP28 (Mezzanine HIC)
25 Gb Ethernet, SFP28 Network cable		Cluster interconnect
10GBASE-T, RJ45 Network cable		10GBASE-T, RJ45 (Mezzanine)
32 Gb Fiber Channel, SFP+ (target/initiator) Network cable		32 Gb Fiber Channel, SFP+ (Mezzanine HIC)
Mini SAS HD cable Storage connections		Expansion connection
Ethernet cables		Management e0M / BMC
Power cables		Power supply

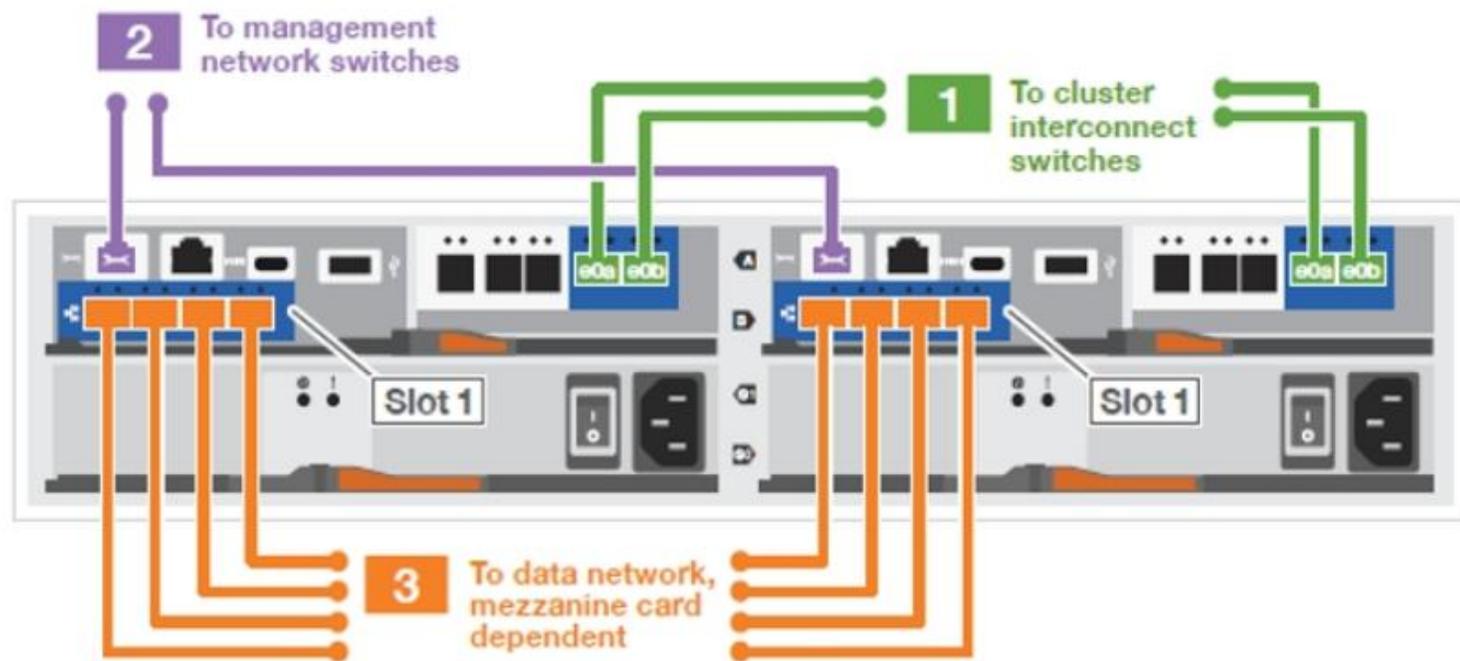
# DM3010H switchless clustering

- 1** Switchless cluster: Connect port e0a to port e0a and port e0b to port e0b.
- 2** Connect the wrench port (e0M/BMC) on both controller modules to the management subnet switches.
- 3** The cables used will vary depending on the mezzanine card installed.



# DM3010H switched clustering

- 1** Switched cluster: Connect port e0a to port e0a and port e0b to port e0b.
- 2** Connect the wrench port (e0M/BMC) on both controller modules to the management subnet switches.
- 3** The cables used will vary depending on the mezzanine card installed.



# DM3010H expansion cabling

- 1** Connect the shelf-to-shelf ports.
- 2** Connect Controller A to the drive shelves.
- 3** Connect Controller B to the drive shelves.

