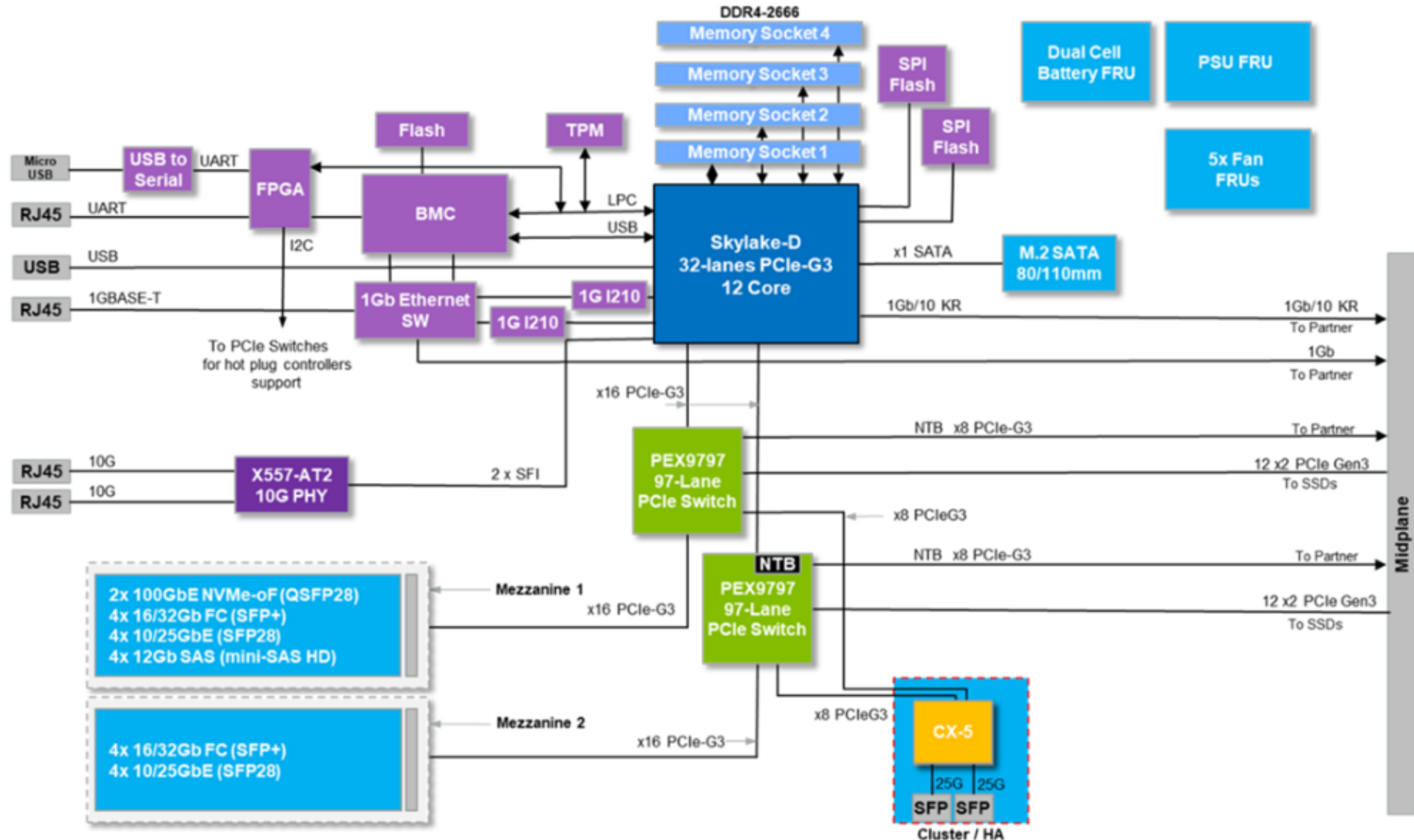


DG5000 configurations and diagrams

Block diagram, storage configurations, clustering, and cabling

Lenovo

DG5000 controller block diagram



DG5000 controller adapter cards

- A maximum of four adapters are allowed in the system.
- All adapters must be installed in pairs on two controllers.
- The system supports a combination of Fiber Channel and Ethernet adapters.

Host interface	PN	Plug type	Support protocols	Per controller	Slot priority
HIC, 10/25 Gb iSCSI, four ports	4C57A67132	SFP28	Ethernet 10/25 Gb	2	2,1
HIC, 16/32 Gb FC, four ports	4C57A67133	SFP+	Fibre Channel 8/16/32 Gb NVMe/FC 8/16/32 Gb	2	2,1

Expansion	PN	Plug type	Support protocols	Per controller	Slot priority
HIC, two 100 Gb NVMe-RoCE, two ports	4C57A67134	QSFP28	Ethernet 100 Gb	1	1

DG5000 switchless clustering

DG5000 systems for switchless clustering require two 25 GbE interconnections.

Cluster & HA interconnects

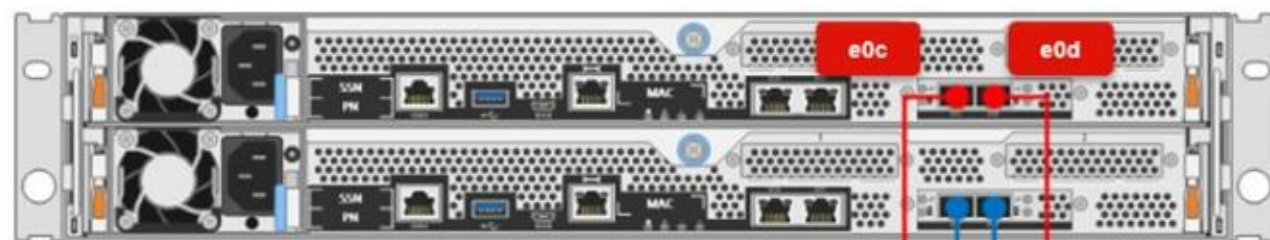
- Connect ports e0c to e0c
- Connect ports e0d to e0d



DG5000 switched clustering

DG5000 systems for switched clustering require two 25 GbE interconnections.

- Connect the 25 GbE cables to the SFP 28 switch ports.
- Each controller in the DG5000 has a redundant path to the switch.



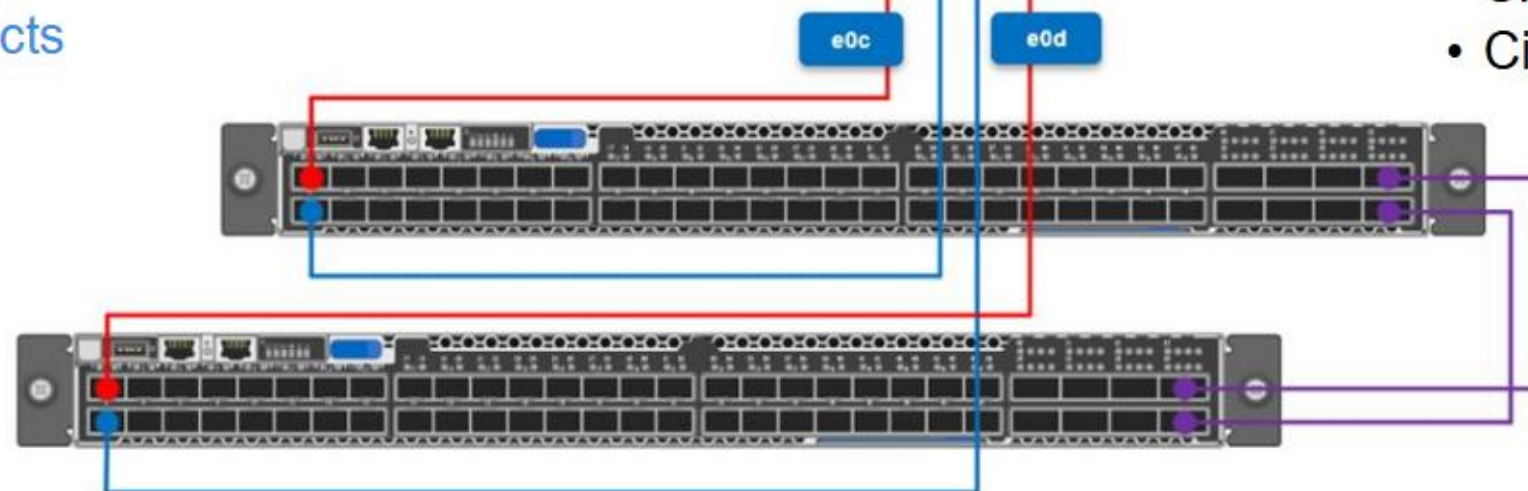
Cluster & HA interconnects

Switch 1

- DG5000-01: e0c
- DG5000-02: e0c

Switch 2

- DG5000-01: e0d
- DG5000-02: e0d



Switch cluster supported with:

- Lenovo BES-53248
- Mellanox/NVIDIA SN2100
- Cisco Nexus 3232C

DG5000 expansion cabling

- Only the DG240N (MT: 7Y62) expansion enclosure is currently supported
- The DG240N requires two 100 GbE port connections on each controller
 - Add a 100 GbE mezzanine card into slot 1 on each controller
 - Each controller in the DG5000 has a redundant path to each of the NVMe Shelf Modules (NSM) in the DG240N.

DG240N expansion links

NSM A

- DG5000-01: **e1a**
- DG5000-02: **e1b**

NSM B

- DG5000-02: **e1a**
- DG5000-01: **e1b**

