

PRODUCT BRIEF



Features

- High density and capacity
- Up to 368TB' in 2U
- Low latency
- Dual Port SSDs
- Bandwidth match between SSDs (Storage) and I/O (Network) – No oversubscription
- RESTful API support for simplified management
- Vertically integrated Western Digital design: NVMe SSDs, fabric adapters and platform
- Superior serviceability and high quality global support services
- Industry leading 5 year limited warranty

¹ One terabyte (TB) is equal to one trillion bytes. Actual user capacity may be less due to operating environment.

OpenFlex[™] Data24 NVMe-oF[™] Storage Platform

The Performance of NVMe[™] Flash in Shared Storage

Western Digital's OpenFlex Data24 NVMe-oF[™] storage platform extends the high performance of NVMe[™] flash to shared storage. It provides low-latency sharing of NVMe SSDs over a high-performance Ethernet fabric to deliver similar performance to locally attached NVMe SSDs. Unsurpassed connectivity in its class using Western Digital RapidFlex[™] NVMe-oF controllers, allows up to six hosts to be attached without a switch, like a traditional JBOF.

NVMe-over-Fabrics, or NVMe-oF, is a networked storage protocol that allows storage to be disaggregated from compute to make that storage widely available to multiple applications and servers. By enabling applications to share a common pool of storage capacity, data can be easily shared between applications or needed capacity can be allocated to an application to respond to application needs.

OpenFlex Data24 NVMe-oF storage platform can also be used as a disaggregated storage resource in an open composable infrastructure environment using the Open Composable API. OpenFlex Data24 is built to deliver high availability and enterprise-class reliability. The entire platform, including SSDs, is backed with a 5-year limited warranty.

Benefits

- Enables servers to share NVMe flash storage as if it were local
- Uses low latency fabric to fully utilize IOPS and capacity
- Provides more efficient use of large capacity SSDs
- High performance RapidFlex NVMe-oF controllers
- Fan out to six connections without a switch
- Balanced design to eliminate over-subscription and maintain NVMe performance
- Disaggregates NVMe shared storage for open composability
- · Allows multiple hosts concurrent access at low latency
- Leverages mature standard NVM Express over Fabrics 1.0a
- Provides open composability in a 2U 24-bay platform

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Specifications

Hardware

• 24 Dual port high-performance SSDs
 Wide range of NVMe SSD capacity and endurance options Ultrastar[®] DC SN840: 1DWPD: Up to 15360 GB Ultrastar DC SN840: 3DWPD: Up to 6400 GB
• High availability with dual IOM
• 3 PCIe x 16 slots/IOM
• Up to six 100GbE ports with dual IOM at full performance
Western Digital RapidFlex NVMe-oF fabric adapters
• OpenFlex inspired composability in a mainstream 2U24
 28" (711mm) chassis depth – fits most commonly used short depth racks (800 – 1000 mm)

Specifications	OpenFlex Data24		
Form Factor	2U		
Front Drive Bays	Up to 24 x U.2 NVMe SSDs		
Power Supply	2x 2000W Platinum 200–240VAC, CRPS, Hot Plug		
Fabric Adapter Slots	6x PCIe x16		
Fabric Adapter(s)	Western Digital RapidFlex NVMe-oF Fabric Adapter		
Cabling	Passive (1 – 5M) and Active Optical (5 – 50M)		
Platform Management	ARM based BMC		
Rear I/O	1G-BASE-T Management Port (RJ-45)		
HA Redundancy	Dual IOMs, Dual Port SSDs, Dual PSUs, Dual Rotor Hot Plug fans		
Environmental	10°C – 35°C		
Chassis Dimensions (Height x Width x Depth)	8.75 × 44.80 × 71.12 cm 3.45" x 17.64" x 28" in		
Weight	Maximum 31.75 kg / 70 lb		
Limited Warranty	5 years standard		

Performance

	128K Bandwidth	4K IOPS	4K QD1 Latency
Read	71.3 GB/s	15.2M	168 us
Write	39.8 GB/s	6.2M	44 us

Western Digital.

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