



Features

- Up to 368TB¹ of low latency Dual Port SSDs in 2U 24-bay platform
- 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
- Optional dual adapter configuration for direct SAS replacement
- Industry-leading 5-year limited warranty

Benefits

- Enables multiple servers to share NVMe flash storage as if it were local
- Leverages low latency fabric to fully utilize IOPS and capacity
- Provides more efficient use of large capacity SSDs at low latency
- Balances access to eliminate over-subscription and maintain NVMe performance
- Provides open composability thru mature NVMe-oF standard
- Ideal SAS replacement option (dual adapter configuration)

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. The platform can also be specified with just two RapidFlex adapters for simpler environments and as a direct replacement for SAS external storage. 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.

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

PRODUCT BRIEF

Specifications

Hardware	Specifications	OpenFlex Data24		
• 24 Dual port high-performance SSDs	Form Factor	2U		
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	Front Drive Bays	Up to 24 x U.2 NVMe SSDs		
	Power Supply	2x 2000W Platinum 200–240VAC, CRPS, Hot Plug		
High availability with dual IOM	Fabric Adapter Slots	6x PCIe x16		
• 3 PCIe® x 16 slots/IOM	Fabric Adapter(s)	Western Digital RapidFlex NVMe-oF Fabric Adapter		
Western Digital RapidFlex NVMe-oF fabric adapters —Six 100GbE ports with dual IOM for maximum performance —Two 100GbE ports for direct replacement of SAS external storage	Cabling	Passive (1 – 5m) and Active Optical (5 – 50m)		
	Platform Management	ARM Based BMC		
	Rear I/O	1G-BASE-T Management Port (RJ-45)		
Two 100GbE ports for direct replacement of SAS external storage	HA Redundancy	Dual IOMs, Dual Port SSDs, Dual PSUs, Dual Rotor Hot Plug Fans		
Western Digital RapidFlex NVMe-oF fabric adapters	Environmental	10°C - 35°C		
OpenFlex inspired composability in a mainstream 2U24	Chassis Dimensions (Height x Width x Depth)	8.75 × 44.80 × 71.12 cm 3.45" x 17.64" x 28" in		
• 28" (711mm) chassis depth – fits most commonly used short depth racks (800 – 1000 mm)	Weight	Maximum 31.75 kg / 70 lb		
	Limited Warranty	5 Years Standard		

Performance

		128K Bandwidth	4K IOPS	4K QD1 Latency
6 × 100GbE	Read	71.3 GB/s	15.2M	168 μs
	Write	39.8 GB/s	6.2M	44 μs
2 × 100GbE	Read	23.83 GB/s	5.09M	175.45 μs
	Write	15.09 GB/s	3.72M	41.73 μs

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