



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.

OpenFlex Data24 NVMe-oF storage platform can also be used as a disaggregated storage resource in an open composable infrastructure environment using the OpenFlex 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.

Features

- High density and capacity
- Up to 368TB¹ 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

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

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

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PRODUCT BRIEF

Specifications

Hardware	Specifications	OpenFlex Data24
<ul style="list-style-type: none">• 24 Dual port high-performance SSDs	Form Factor	2U
<ul style="list-style-type: none">• Wide range of NVMe SSD capacity and endurance options<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">• High availability with dual IOM	Power Supply	2x 2000W Platinum 200–240VAC, CRPS, Hot Plug
<ul style="list-style-type: none">• 3 PCIe x 16 slots/IOM	Fabric Adapter Slots	6x PCIe x16
<ul style="list-style-type: none">• Up to six 100GbE ports with dual IOM at full performance	Fabric Adapter(s)	Western Digital RapidFlex NVMe-oF Fabric Adapter
<ul style="list-style-type: none">• Western Digital RapidFlex NVMe-oF fabric adapters	Cabling	Passive (1 – 5M) and Active Optical (5 – 50M)
<ul style="list-style-type: none">• OpenFlex inspired composability in a mainstream 2U24	Platform Management	ARM based BMC
<ul style="list-style-type: none">• 28" (711mm) chassis depth – fits most commonly used short depth racks (800 – 1000 mm)	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 x 44.80 x 71.12 cm 3.45" x 17.64" x 28" in
	Weight	Maximum 31.75 kg / 70 lb
	Limited Warranty	5 years standard

Western Digital

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