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.

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

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
## 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
- 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

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