

NVMe-oF CDI Solution Kit

Get more out of your
datacenter while
improving efficiency



The demand for low latency storage in modern enterprise applications continues to increase, and so is the requirement to quickly scale up and down to meet demands. NVMe flash is the answer, but these applications demand the flexibility and sharability of SAN/NAS with the performance of DAS.

Western Digital is leading the charge towards a new approach to storage infrastructure with the OpenFlex Data24 NVMe-oF Storage Platform, which delivers low-latency sharing of NVMe SSDs over a high-performance Ethernet fabric to deliver similar performance to locally attached NVMe SSDs. When combined with Liquid Composable Disaggregated Infrastructure (CDI) software, the OpenFlex Data24 becomes a disaggregated resource that offers better flexibility and agility than SAN/NAS solutions.

Introducing the NVMe-oF CDI Starter Kit solution from Western Digital and Liquid. The Starter Kits simplify NVMe deployments to existing servers and increases resource utilization while meeting the performance demands of modern applications. Now, IT can compose precise quantities of NVMe resources to servers via software, in seconds. Need more? Use Liquid's GUI or API to recompose devices within the Data24 to other servers. If applications require accelerator resources, Liquid can be used to compose resources like GPU and FPGA to servers as well. A key benefit of CDI is that composed resources are disaggregated from the servers, so running out of drive bays or PCIe slots is not a problem.

Finally, Liquid simplifies support as single-point triage and management of the entire Solution Kit.



NVMe-oF CDI Starter Kit

Technical Specifications

Western Digital Open Flex Data24 Storage Platform –

Capacity Points	92TB and 184TB
Max # of Drives	24 x U.2 NVMe SSDs
PCIe Interface	3x PCIe x 16 slots/IOM
Network Ports	3x 100 GbE Ports
Total Bandwidth	~50 GB/s – Full Duplex
Cabling	Passive (1 – 5M) and Active Optical (5 – 50M)
Rack Height	2U
Power	2x 2000W Platinum 200-240VAC, CRPS, Hot Plug
Environmental	10° C – 35° C

Host Ethernet Adapters

Ethernet Adapters	3x 100GbE Dual-Port NIC (one per host)
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Management Node

Rack Unit	1U
Power	250W
Management SW	Liquid Command Center
Interconnect	1x PCIe Gen3 HBA

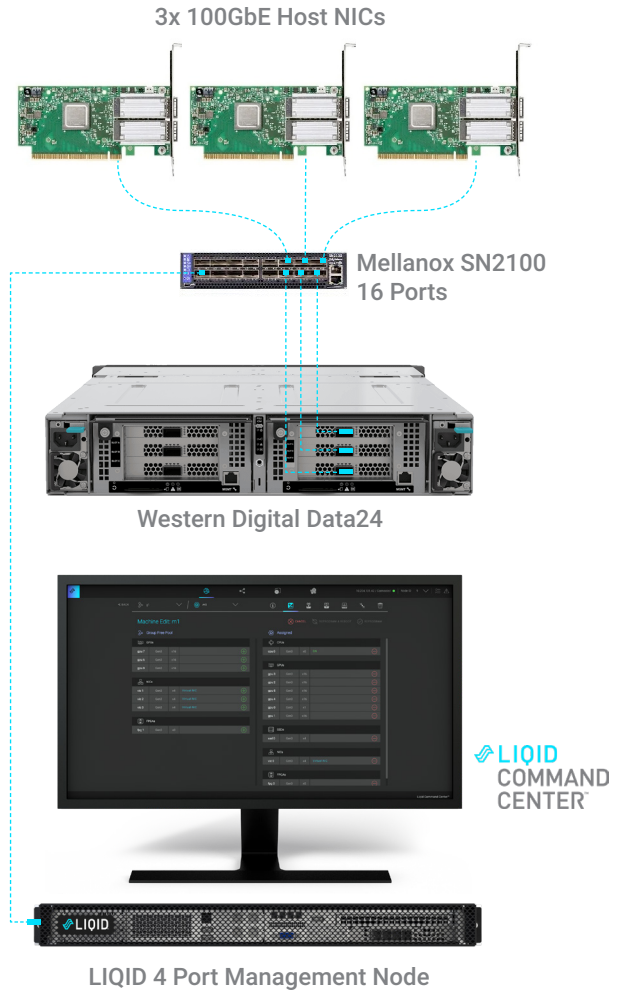
What's Included

The NVMe-oF CDI Starter Kit includes everything needed to deliver high-performance composable NVMe to your existing compute resources on the switched fabric. Two capacity points are available, 92TB and 184TB. **Each kit includes:**

Device	Quantity	Description
NVMe-oF JBOF	1pcs	WDC OpenFlex Data24
Ethernet Adapters	3pcs	100GbE Dual-port, RDMA Enabled NIC
Ethernet Switch	1pcs	Mellanox SN2100 Open Ethernet Switch (100GbE)
Management Node	1pcs	1U Liquid management node
Data Cables	6pcs	Mellanox 100GbE QSFP Cables
Host Licenses	3pcs	Perpetual Host Licenses
Warranty	3 Years	Liquid Premium Level-2 Software Support

Contact Information

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Benefits

Increase Flexibility: Deploy the exact amount of NVMe performance and capacity required by workloads directly to a server in seconds, via software.

Improve IT Agility: Respond quickly to changing needs by scaling granularly via software without ever having to touch a server, and when they're no longer needed move them back to the pool.

Increased Efficiency: Compose precise amounts of NVMe capacity to each server. Never over over-purchase and strand NVMe again.