# 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 Liqid 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 Liqid. 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 Liqid's GUI or API to recompose devices within the Data24 to other servers. If applications require accelerator resources, Liqid 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, Liqid simplifies support as single-point triage and management of the entire Solution Kit.

3x 100GbE Host NICs

# 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 | 10º C – 35º C |

Mellanox SN2100 16 Ports

Western Digital Data24

### Host Ethernet Adapters

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

### Management Node

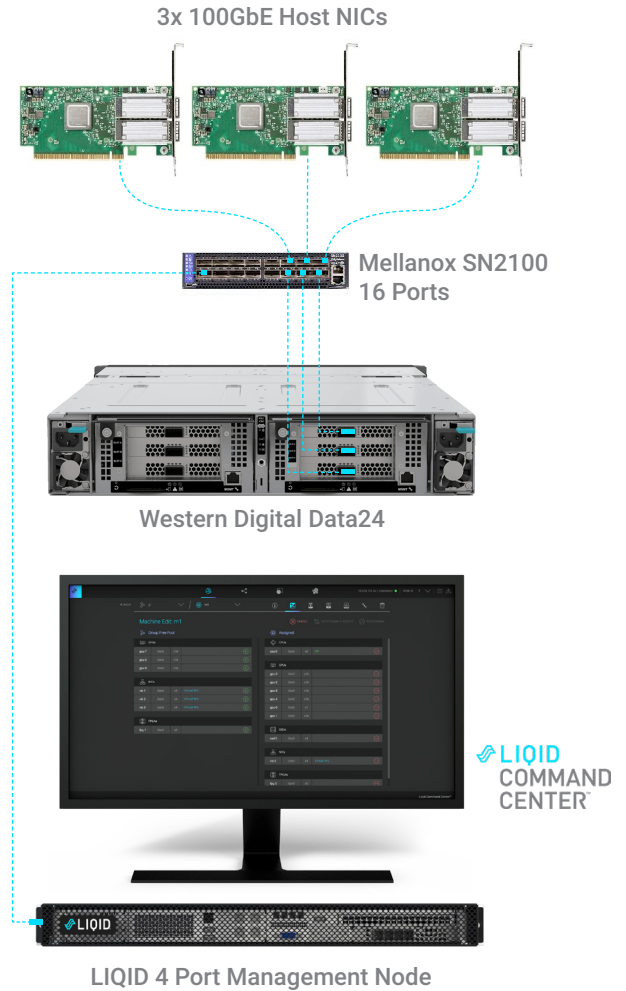| | |
|---|---|
| Rack Unit | 1U |
| Power | 250W |
| Management SW | Liqid Command Center |
| Interconnect | 1x PCIe Gen3 HBA |

LIQID COMMAND CENTER

LIQID 4 Port Management Node

## 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 fabrc. 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 Liqid management node |
| Data Cables | 6pcs | Mellanox 100GbE QSFP Cables |
| Host Licenses | 3pcs | Perpetual Host Licenses |
| Warranty | 3 Years | Liqid Premium Level-2 Software Support |

### 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.

### Contact Information

Liqid, Inc.
329 Interlocken Pkwy., Ste 200
Broomfield, CO 80021

office: +1 303.500.1551
email: partner@liqid.com