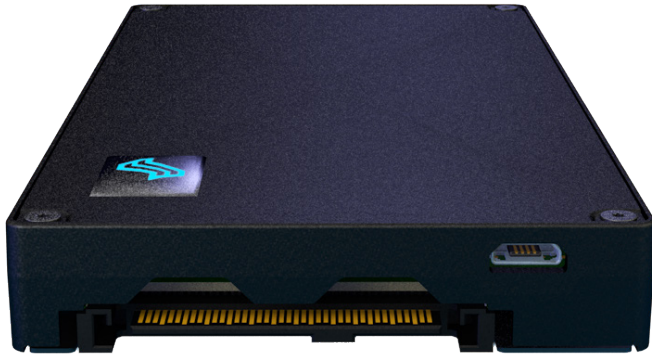




LIQID

Element LQD3250x and LQD3250xd
PCIe U.2 Extended SSD Specifications



Blistering Pace

The Liquid Element Extended length 2.5" U.2 NVMe SSD features high dense capacity and extreme performance for mission-critical and performance-demanding workloads. It is a extended form factor 2.5" 15 mm design that works with systems that have extended length 2.5" U.2 NVMe slots. This makes the Element U.2 ideal for deployment in data center and enterprise applications.

The Element U.2 offers a hot pluggable Gen 3.0 PCIe interface with single- and dual-port configurations, which enables high-throughput and high-availability. It utilizes the latest NVMe protocol in order to deliver increased performance and efficiency from a single device. The U.2 outperforms legacy architectures by delivering 850 K IOPS of random performance, over 3.60 GB/s of throughput and ultra-low transactional latency of 20 μ s.

The Element U.2's innovative design enables multiple drive configurations ranging from maximum performance to maximum redundancy. The U.2 also features enterprise-class power failure protection for increased reliability to prevent data loss and ensure uninterrupted work in case of power failure.

- > NVMe PCIe Gen 3.0 x4 Interface
- > x4 Single-Port or x2 x2 Dual-Port
- > High-capacity NVMe SSD, up to 16 TB
- > Enterprise-class Power Failure Protection

Key Features

- High Performance PCIe SSD
- NVMe 1.2.1 Protocol Supported
- High Capacity Design, up to 16 TB
- Standard Form Factor SSD
- 2.5" U.2 Form Factor Extended
- Plug-n-Play Compatibility
- UEFI Boot Support
- Enterprise Grade Reliability
- Power Loss Data Protection
- Dual Port (x2 x2 Active/Active)
- Single-Port (x4)
- Hot Plug
- Active Thermal Throttling
- Active Power Management
- Advanced ECC and Data Protection
- Advanced Error Recovery
- Active Telemetry Monitoring
- Low Overhead Architecture
- No Host CPU or DRAM Off Load
- RAID on Card Supported Data Protection



Element LQD3250x and LQD3250xd
PCIe U.2 Extended SSD Specifications

Specification	Model: Element LQD3250x SSD
Raw Capacity	Up to 16 TB
NAND Type	TLC 3D NAND
Read Bandwidth (GB/s)	~3.60
Write Bandwidth (GB/s)	~3.60
Ran. Read IOPS (4k)	~850,000
Ran. Write IOPS (4k)	~850,000
Ran. Write IOPS (4k) (SS)	~275,000
Read Access Latency	~80 µs
Write Access Latency	~20 µs
Protocol	NVMe 1.2.1
Bus Interface	PCI Express 3.0 x4 or x2 x2
Endurance*	Up to 30.76 PBW*
Security	256 Bits AES Data Encryption
Redundancy	x2 x2 Dual Port (Active/Active)
Warranty	3 years or maximum endurance used
Form Factor	2.5" U.2 Form Factor (130mm) Extended Length
Temperature	Op: 0 to 55 deg C Non-Op: -40 to 75 deg C
Power	Active: ~25 W Typical Input: 12 V Only (optional aux power cable)
Air Flow	Min 400 LFM
Humidity	5% to 95% (non-condensing)
Altitude	0 ft to 10,000 ft
Operating Environments	Windows, Windows Server 2012, 2012 R2 RHEL; SLES; CentOS, Solaris, SUSE, VMware
Agency & Safety	UL, CB, CE, CCS, KCC, HF, BSMI, VCCI, FCC Class B and CISPR Class B, JEDEC

*PBW table per capacity/configuration available upon request

About Liquid

A leader in composable infrastructure, Liquid enables users to configure and manage physical, bare-metal server systems in seconds. Storage, compute, networking and graphics processing devices are interconnected over PCI-Express fabric to deliver dynamically configurable bare-metal servers perfectly sized with the exact physical resources required by the application being deployed.

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Data Center Selection

LQD3250x (Single-Port):

- LQD-E1TPNBD04M960G00-S104-N1
960GB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M001T92-S104-N1
1.92TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M003T84-S104-N1
3.84TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M007T68-S104-N1
7.68TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M015T36-S104-N1
15.36TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD

LQD3250xd (Dual-Port):

- LQD-E1TPNBD04M960T00-M202-N1
960GB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M001T92-M202-N1
1.92TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M003T84-M202-N1
3.84TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M007T68-M202-N1
7.68TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M015T36-M202-N1
15.36TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD

Enterprise Selection

LQD3250x (Single-Port):

- LQD-E1TPNBD04M800G00-S104-N1
800GB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M001T60-S104-N1
1.60TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M003T20-S104-N1
3.20TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M006T40-S104-N1
6.40TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD
- LQD-E1TPNBD04M012T80-S104-N1
12.80TB, 983, NVMe PCIe Gen 3.0 x4 single-port 1x4 U.2x SSD

LQD3250xd (Dual-Port):

- LQD-E1TPNBD04M800G00-M202-N1
800GB, 983, NVMe PCIe Gen 3.0 x4 dual-port 2x2 U.2x SSD
- LQD-E1TPNBD04M001T60-M202-N1
1.60TB, 983, NVMe PCIe Gen 3.0 x4 dual-port 2x2 U.2x SSD
- LQD-E1TPNBD04M003T20-M202-N1
3.20TB, 983, NVMe PCIe Gen 3.0 x4 dual-port 2x2 U.2x SSD
- LQD-E1TPNBD04M006T40-M202-N1
6.40TB, 983, NVMe PCIe Gen 3.0 x4 dual-port 2x2 U.2x SSD
- LQD-E1TPNBD04M012T80-M202-N1
12.80TB, 983, NVMe PCIe Gen 3.0 x4 dual-port 2x2 U.2x SSD

Please contact your sales rep for more information and to determine which configuration is best for use. Specification subject to change without notice.