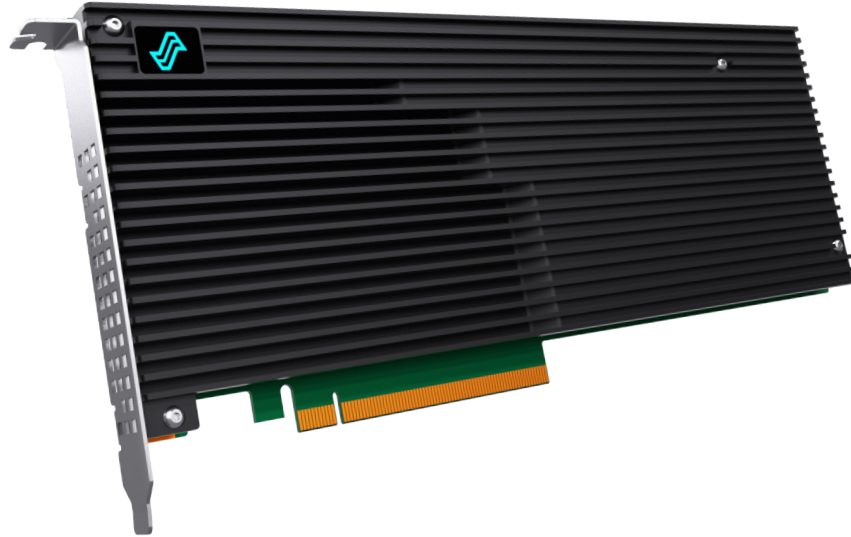# Liqid LQD4500 IO Accelerator
Elevate Data Performance

In data-driven environments, unlocking the full potential of data performance is paramount. Introducing the Liqid Element LQD4500 IO Accelerator — an advanced storage solution engineered to shatter performance barriers and redefine what's possible. Designed to deliver uncompromised data IO performance and responsiveness, the LQD4500 empowers you to accelerate results.

With the capability to deliver an astounding 4 million IOPS of random read performance, coupled with over 26 GB/s of read throughput, it surpasses conventional SSDs, providing the robust foundation your data-intensive applications demand. The ultralow transactional latency of just 10 microseconds ensures that every data interaction occurs at the speed of now.

Storage demands are experiencing exponential growth, and with capacities reaching up to a remarkable 32 terabytes, the LQD4500 equips you to handle vast datasets without compromise. Whether you're navigating complex simulations, conducting expansive analytics, or managing rich multimedia content, the LQD4500 offers substantial headroom.

> Ultra Fast PCIe Gen 4.0 x16 Interface

> Performance of 4 M IOPS and 26 GB/s

> High-capacity NVMe SSD, up to 32 TB

> Enterprise-class Power Failure Protection

Key Features

- Ultra-High Performance
- PCIe 4.0 x16 Interface
- NVMe 1.3 Protocol
- High Capacity, up to 32 TB
- Single Width FHFL
- Plug-n-Play Compatibility
- UEFI Boot Support
- Enterprise Grade Reliability
- Power Loss Data Protection
- 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
- Software or OS RAID Supported Data Protection

LIQID

Technical Specifications

Model	Liqid LQD4500 IO Accelerator
Raw Capacity	Up to 32TB
NAND Type	TLC 3D NAND
Read Bandwidth	Up to 26GB/s Throughput
Write Bandwidth	Up to 13GB/s Throughput
Random 4K Read IOPS	Up to 4M IOPS
Random 4K Write IOPS	Up to 900K IOPS
Min Read Latency	70µs
Min Write Latency	10µs
Protocol	NVMe 1.3
Bus Interface	PCI Express 4.0 x16
Endurance	Up to 61.53 PBW / 2 DWPD*
Security	256-bit AES Data Encryption
Weight	20 oz
Warranty	3 years or maximum endurance used
Form Factor	FHFL Single Width
Operating Temperature	Op: 0 to 55 deg C / Non-Op: -40 to 75 deg C
Power	Active: 12VDC / ~75W
Airflow	Min 400 LFM
Humidity	5% to 95% (non-condensing)
Altitude	0 ft to 10,000 ft
Operating Systems	Windows, 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/DWPD table per capacity/configuration available upon request

Data Center Series
7.68TB: L4500-007T68-040
15.36TB: L4500-015T36-040
30.72TB: L4500-030T72-040

Enterprise Series
6.4TB: L4500-006T40-040
12.8TB: L4500-012T80-040
25.6TB: L4500-025T60-040

Please contact your sales rep for more information and to determine which configuration is best to accomplish your company's specific goals. Specification subject to change without notice.

Contact Information

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