

Cost-Effective Memory Scale

The Liqid LQD4900 harnesses the performance and endurance of Intel® Optane™ Technology in a PCIe Add-in-Card (AIC) SSD formfactor, powered by Liqid's storage fabric technology. When coupled with MemVerge software Liqid can extend system memory transparently. MemVerge integrates the LQD4900 into the memory subsystem, making it appear as DRAM to the OS and applications, with zero changes required to either one, unlocking higher user capacity and application performance. Achieving DRAM memory-like speeds, the Liqid and Intel Optane solution suite is available in capacities of up to 3TB.

This unique collaboration between Liqid and Intel® delivers an ultra-thin, full-height full-length (FHFL) formfactor that works seamlessly with systems with available PCIe slots. A Gen 4.0 x16 PCIe interface unlocks ultra-high throughput and low latency speeds. Delivering over 4M IOPS of random read performance, 21GB/s of throughput and ultra-low latency of <15 µs, the LQD4900 outperforms conventional flash solutions.

- > Ultra Fast PCIe Gen 4.0 x16 Interface
- > Over 4M IOPS and 21GB/s Throughput
- > 3TB of Intel Optane Performance
- > MemVerge for DRAM Emulation

Key Features

- High Performance Intel Optane Technology
- Ultra Fast PCIe 4.0 x16 Interface
- NVMe 1.3 Protocol Supported
- High Capacity Design, 3TB
- Standard Form Factor SSD
- Single Width FHFL Card
- Plug-n-Play Compatibility
- UEFI Boot Support
- Enterprise Grade Reliability
- Non-Volatile Storage Media
- Active Thermal Throttling
- Active Power Management
- Advanced ECC and Data Protection
- Advanced Error Recovery
- Active Telemetry Monitoring
- Low Overhead Architecture
- MemVerge Software Support for DRAM Emulation

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| Specification | Model: Element LQD4900 PCIe AIC SSD |
|--------------------------|--|
| Raw Capacity | 3 TB |
| Media Type | Intel Optane Technology |
| Read Bandwidth (256K) | ~21.7 GB/s |
| Write Bandwidth (256K) | ~19.4 GB/s |
| Ran. Read IOPS (4K) | ~4,088,000 |
| Ran. Write IOPS (4K) | ~3,700,000 |
| Read Latency (4K, QD=1) | ~15 μ s |
| Write Latency (4K, QD=1) | ~15 μ s |
| Protocol | NVMe 1.3 |
| Bus Interface | PCI Express 4.0 x16 |
| Endurance | Up to 328 PBW* |
| Security | 256 Bits AES Data Encryption |
| Weight | 20.8 oz / 589.7g |
| Warranty | 3 years, or maximum endurance used |
| Form Factor | Standard Form Factor FHFL Card |
| Temperature | Op: 0 to 55 deg C Non-Op: -40 to 75 deg C |
| Power | Active: ~Reads 70 W / Write 110 W Input: 12 V Only (optional aux power cable) |
| Air Flow | Min 500l/mf |
| 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.

Liquid and Intel Optane Technology

MemVerge software enables the Liquid and Intel Optane solutions to be fully integrated into the memory subsystem and presented transparently to the OS and applications layer as native DRAM. The technology also supports NVMe storage without DRAM emulation.

Selections

Liquid and Intel Optane SSD:

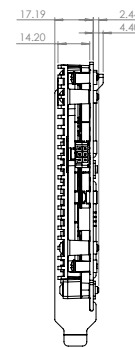
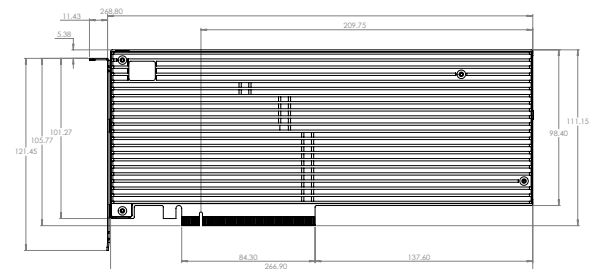
L4900-003T00-040

3.00TB, Intel Optane, NVMe PCIe Gen 4.0 x16 Performance FHFL AIC SSD

Liquid and Intel Optane Persistent Memory:

L4900-003T00-D40

3.00TB, Intel Optane, NVMe PCIe Gen 4.0 x16 Performance FHFL AIC SSD



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

Contact Information

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