Superior Performance

The Liqid Element PCIe Add-In-Card (AIC) features high dense capacity and extreme performance for mission critical and performance-demanding workloads. It is an ultra-thin, standard form factor half-height half-length (HHHL) card that works seamlessly with systems that have existing PCIe slots. This makes the Element AIC ideal for deployment in data center and enterprise applications.

The Element AIC offers a Gen 3.0 x8 PCIe interface, which enables high-throughput and low-latency transactions. It utilizes the latest NVMe protocol in order to deliver increased performance and efficiency from a single device. The AIC outperforms legacy architectures by delivering 1.25 M IOPS of random performance, over 7 GB/s of throughput and ultra-low transactional latency of 20 μs.

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

Key Features
- High Performance PCIe SSD
- Ultra Fast PCIe 3.0 x8 Interface
- NVMe 1.2.1 Protocol Supported
- High Capacity Design, up to 16 TB
- Standard Form Factor SSD
- Low Profile HHHL Card
- 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
- RAID on Card Supported
- Data Protection
### Specification

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### Data Center Selection

**Toshiba 3D NAND:**

- **LQD-E1APNAA04M960G00**
  - 960GB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M001T92**
  - 1.92TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M003T84**
  - 3.84TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M007T68**
  - 7.68TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M15T40**
  - 15.40TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD

**Samsung 3D NAND:**

- **LQD-E1APNB04M003T84**
  - 3.84TB, 983, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNB04M007T68**
  - 7.68TB, 983, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNB04M015T40**
  - 15.40TB, 983, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD

### Enterprise Selection

**Toshiba 3D NAND:**

- **LQD-E1APNAA04M800G00**
  - 800GB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M001T60**
  - 1.60TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M003T20**
  - 3.20TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M006T40**
  - 6.40TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNAA04M012T80**
  - 12.80TB, TN, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD

**Samsung 3D NAND:**

- **LQD-E1APNB04M003T20**
  - 3.20TB, 983, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNB04M006T40**
  - 6.40TB, 983, NVMe PCIe Gen 3.0 x8 HHHL AIC SSD
- **LQD-E1APNB04M012T80**
  - 12.80TB, 983, NVMe PCIe Gen 3.0 x8 HHHL 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.

### About Liqid

A leader in composable infrastructure, Liqid 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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