LQD400x08P Expansion Chassis
PCIe Gen4 Eight Device JBOx (GPU/SSD/FPGA/NIC)

PCIe Gen4 Accelerator Consolidation for CDI

Next-generation workloads demand accelerator resources like GPU, FPGA, NVMe, and Optane™ to generate successful outcomes. However, today's deployment options make it difficult to deliver precise amounts of these resources, resulting in missed SLAs and poor resource utilization.

Liqid disaggregates accelerated resources and pools them into expansion chassis connected to high-speed PCIe fabric where, along with compute resources, they are composed into bare metal servers in seconds via software to address the world's most demanding workloads.

The Liqid LQD400x08P is a high-density expansion chassis designed to pool PCIe accelerator devices. The 5RU chassis is capable of supporting up to 8x PCIe Gen 4x16 FHFL double wide devices, including GPUs, FPGAs, NVMe, and Intel Optane technologies. With up to 64GB/s of connectivity to the PCIe fabric switch and 100ns response time, IT can pool many accelerator devices and use Liqid Command Center Software and compose resources exactly where they are needed, in any ratio.

> Ultra-Dense - 8 PCIe Gen4 Slots in 5U

> High Performance - 256 GB/s total bandwidth

> Low Latency - 100ns

> Simple Maintenance - Hot swap design

Key Features

- Interface: PCIe Gen4x16 per Device
- 8x FHFL Double Wide
- Port Bandwidth: Up to 64 GB/s
- Total Bandwidth: Up to 256 GB/s
- Port Latency: 100 ns (PCIe)
- Power: Up to 4000W
- Cooling: 6 x 12038 PWM fans
- Smart fan control, fan fail alert

Supported Device Types

GPU SSD NIC FPGA

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LIQID

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Specification	Model: LQD400x08P Expansion Chassis
Product	LQD400x08P
Description	Expansion Chassis for PCIe Devices
Form Factor	5U
Devices Per Chassis	8x Gen4x16 FHFL Double Wide Devices
Device Type Supported	GPU, SSD, FPGA or NIC
Device Interface	PCIe Gen4x16 per Device
Chassis Cable	MiniSAS HD
Chassis Interface Ports	2x Gen4x16 (expandable to 4x)
Chassis Port Bandwidth	Up to 64 GB/s – Full Duplex
Chassis Total Bandwidth	Up to 256 GB/s – Full Duplex
Fabric Latency	100 ns (PCIe)
PCIe Switch Chip	Dual Broadcom Atlas 88096
Protocol	Software Managed Switching Fabric
Architecture	Disaggregated Bare-metal Infrastructure
Management Software	Liqid Command Center™
Environmental	Temperature : 0°C to 35°C Relative humidity : 20% to 80%
Power	4 x 1600W 2+2 hot swap redundant 80+ Platinum (optional 4 x 2000W 2+2)
Input Voltage	240V AC
Safety Certifications	FCC, UL, CE, CCC, CU
Cooling:	3x 120x38mm fans
Integrated I/O port	2x PCIe ports
Dimensions	17.15” x 18.35” x 8.65”

Front View

Rear View

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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