LIQID

LQD300x04X Expansion Chassis
PCIe or Ethernet Connected JBOx (GPU/FPGA/SSD/AIC)

Pool devices and compose bare-metal resources on-demand through automation

Liqid delivers improved resource management and utilization with software-defined composable infrastructure for GPUs, FPGAs, SSDs, NICs and Intel Optane technologies. Resources are unlocked from traditional static configurations and disaggregated into pools of composable resources via high-performance expansion chassis. These resources are then allocated through Liqid Command Center software at bare metal across ultra-low-latency switching fabrics. Liqid is simplifying scalability and resource orchestration across all major data center fabrics, including PCI-Express, Ethernet, and Infiniband.

Liqid enables the pooling and disaggregation of multiple device types, expanding the availability of these resources across the data center through software-defined composability. Create balanced data center systems and recognize increased resource utilization without increasing the data center footprint utilizing composable solutions from Liqid.

The LQD300x04X is a high-performance expansion chassis for the disaggregating and pooling of multiple device types including GPU, FPGA, and SSD AIC. The chassis offers 4x Double Wide PCIe Gen3x16 expansion slots in a 2RU form factor with integrated power and cooling. The chassis offers up to 64GB/s of connectivity to the Liqid Grid Fabric Switch and is optimized for bare metal resources orchestration.

Key Features

- Interface: PCIe Gen3 or 100GbE
- 4x FHFL Double Wide
- Port Bandwidth: Up to 32 GB/s
- Total Bandwidth: Up to 64 GB/s
- Port Latency: 150 ns
- Power: Up to 1600W (1+1)
- Management: BMC with Fan Mgt.
- Form Factor: 2RU

Supported Device Types

GPU FPGA SSD

LIQID

LQD300x04X Expansion Chassis

PCIe or Ethernet Connected JBOx (GPU/FPGA/SSD/AIC)

Specification	Model: LQD300x04X Expansion Chassis
Product	PCIe: LQD300x04P Ethernet: LQD300x04E
Overview	Expansion Chassis for PCIe Devices
Form Factor	2RU
Devices Per Chassis	4x Gen3x16 FHFL Double Wide Devices
Device Type Supported	GPU, FPGA, or SSD AIC (Add-In-Card)
Device Interface	PCIe Gen3x16 per Device
Chassis Cable	PCIe: MiniSAS HD (LQD300x04P) Ethernet: QSFP/QSFP+ (LQD300x04E)
Chassis Interface Ports	PCIe: Up to 2x Gen3x16 Ethernet: Up to 4x Ports 100GbE
Chassis Port Bandwidth	Up to 32 GB/s – Full Duplex
Chassis Total Bandwidth	Up to 64 GB/s – Full Duplex
Fabric Latency	150 ns (PCIe)
Protocol	Software Managed Switching Fabric
Architecture	Disaggregated Bare-metal Infrastructure
Management Software	Liqid Command Center
Environmental Temperature	10°C — 35°C
Power	Up to 1600W (1+1)
Input Voltage	110–240V
Safety Certifications	FCC, UL, CE, CCC, CU
Mgt. Processor	ARM Management Chip
Integrated I/O port	2xRJ45/2xUSB Ports
Dimensions	17.1in x 3.4in x 29.5in

Selection Options for LQD300x04X

LQD300x04P - PCIe Connected Expansion Chassis
4x GPU/FPGA/SSD/AIC

LQD300x04E - Ethernet Connected Expansion Chassis
4x GPU/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

Liqid, Inc.
329 Interlocken Pkwy., Ste 200
Broomfield, CO 80021
office: +1 303.500.1551
email: sales@liqid.com

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.