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
Expansion Chassis for PCIe Devices

Overview

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 Port Bandwidth
Up to 32 GB/s – Full Duplex

Power
Chassis Total Bandwidth
Up to 64 GB/s – Full Duplex

Temperature
Fabric Latency
150 ns (PCIe)

Safety Certifications
Software Managed Switching Fabric

Architecture
Disaggregated Bare-metal Infrastructure

Management Software
Liqid Command Center

Input Voltage
110–240V

Contact Information

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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.