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 LQD300x20X is a high-performance expansion chassis for the disaggregating and pooling of multiple device types including GPUs, FPGAs, SSDs, NICs, and Intel Optane technologies. The chassis offers 20x Double Wide PCIe Gen3x16 expansion slots in a 7RU 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
- 20x FHFL Double Wide
- Port Bandwidth: Up to 32 GB/s
- Total Bandwidth: Up to 128 GB/s
- Port Latency: 150 ns
- Power: Up to 8000W
- Management: BMC with Fan Mgt.
- Form Factor: 7RU

Supported Device Types
- GPU
- FPGA
- NIC
- SSD
LQD300x20X Expansion Chassis
PCIe or Ethernet Connected JBox (GPU/FPGA/NIC/SSD/AIC)

Specification

Model: LQD300x20X Expansion Chassis

Product:
LQD300x20P - PCIe Connected Expansion Chassis
LQD300x20E - Ethernet Connected Expansion Chassis

Overview:
Expansion Chassis for PCIe Devices
20x Gen3x16 FHFL Double Wide Devices
GPU, FPGA, NIC or SSD AIC (Add-In-Card)

Device Interface:
PCle Gen3x16 per Device

Chassis Cable:
PCIe: MiniSAS HD (LQD300x24P)
Ethernet: QSFP/QSFP+ (LQD300x24E)

Chassis Interface Ports:
PCIe: Up to 4x Gen3x16
Ethernet: Up to 8x Ports 100GbE

Chassis Port Bandwidth:
Up to 32 GB/s – Full Duplex
Up to 128 GB/s – Full Duplex

Chassis Total Bandwidth:
150 ns (PCIe)

Fabric Latency:
Disaggregated Bare-metal Infrastructure

Protocol:
Software Managed Switching Fabric

Architecture:
LIqid Command Center

Environmental Temperature:
10°C – 35°C

Power:
Up to 8000W (2+2)
110~240V

Input Voltage:
FCC, UL, CE, CCC, CU

Safety Certifications:
ARM Management Chip

Mgt. Processor:
2xRJ45/2xUSB Ports

Integrated I/O port:
19.6in x 12.2in x 23.6in

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.