



LQD300x24X Expansion Chassis
PCIe or Ethernet Connected JBOX (FPGA/NIC/SSD)



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

Liquid delivers improved resource management and utilization with software-defined composable infrastructure for 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 Liquid Command Center software at bare metal across ultra-low-latency switching fabrics. Liquid is simplifying scalability and resource orchestration across all major data center fabrics, including PCI-Express, Ethernet, and Infiniband.

Liquid 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 Liquid.

The LQD300x24X is a high-performance expansion chassis for the disaggregating and pooling of multiple device types including SSDs, FPGAs, NICs, and Intel Optane technologies. The chassis offers 24x PCIe Gen3x4 expansion slots in a 2RU form factor with integrated power and cooling. The chassis offers up to 128GB/s of connectivity to the Liquid Grid Fabric Switch and is optimized for bare metal resources orchestration.

Key Features

- Interface: PCIe Gen3 or 100GbE
- Port Latency: 150 ns
- 24x SSDs, FPGAs or NICs
- Power: Up to 1300W (1+1)
- Port Bandwidth: Up to 32 GB/s
- Management: BMC with Fan Mgt.
- Total Bandwidth: Up to 128 GB/s
- Form Factor: 2RU

Supported Device Types





LQD300x24X Expansion Chassis

PCIe or Ethernet Connected JBox (FPGA/NIC/SSD)

Specification

Model: LQD300x24X Expansion Chassis

Selection Options for LQD300x24X

Product	PCIe: LQD300x24P Ethernet: LQD300x24E
Overview	Expansion Chassis for PCIe Devices
Form Factor	2RU
Devices Per Chassis	24x Gen3x4 Devices (SSD or FPGA or NIC)
Device Type Supported	SFF-8639 2.5" SSD, 2.5" FPGA or OCP NIC
Device Interface	PCIe Gen3x4 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
Chassis Total Bandwidth	Up to 128 GB/s – Full Duplex
Fabric Latency	150 ns (PCIe)
Protocol	Software Managed Switching Fabric
Architecture	Disaggregated Bare-metal Infrastructure
Management Software	Liquid Command Center
Environmental Temperature	10°C – 35°C
Power	Up to 1300W (1+1)
Input Voltage	110–240V
Safety Certifications	FCC, UL, CE, CCC, CU
Mgt. Processor	ARM Management Chip
Integrated I/O port	2xRJ45
Dimensions	17.1in x 3.5in x 26.8in

LQD300x24P - PCIe Connected Expansion Chassis
24x SSDs, FGAs or NICs

LQD300x24E - Ethernet Connected Expansion Chassis
24x 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

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About Liquid

A leader in composable infrastructure, Liquid 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.