





Expansion Chassis

Disaggregated Resource Consolidation for Composable Infrastructure

Liquid expansion chassis are designed to consolidate disaggregated PCIe-connected devices that are composed by Liquid Matrix® software to deploy and scale bare metal servers in seconds. Liquid’s expansion chassis are designed to accommodate 8-32 PCIe devices each with support for both PCIe Gen 3 and 4. Disaggregate GPUs, FPGAs, NVMe

SSD, Intel Optane memory, and networking to deploy and scale bare metal servers that meet the most demanding workload requirements. PCIe and Ethernet connectivity options provide multi-fabric support for increased deployment flexibility.

Description	32x Slot Expansion Chassis (PCIe Gen 3)	8x Slot Expansion Chassis (PCIe Gen 4)
Model	LQD300x32P (PCIe) LQD300x32E (Eth)	LQD400x08P (PCIe)
Enclosure Front		
Enclosure Rear		
Feature Highlights	<ul style="list-style-type: none"> » Interface: PCIe Gen3 » Devices: 32x U.2 Drives » Port Bandwidth: Up to 32 GB/s » Total Bandwidth: Up to 128 GB/s » Port Latency: 150 ns » Form Factor: 1RU 	<ul style="list-style-type: none"> » Interface: PCIe Gen4 » Devices: 8x FHFL Double Wide or 10x FHFL Single Wide » Port Bandwidth: Up to 64 GB/s » Total Bandwidth: Up to 256 GB/s » Port Latency: 100 ns » Form Factor: 4RU



Description	32x Slot Expansion Chassis (PCIe Gen 3)	8x Slot Expansion Chassis (PCIe Gen 4)
Model Number	L300X-JBX032-330 (PCIe)	LQD400x08P (PCIe)
PCIe Generation	Gen 3	Gen 4
Connectivity	PCIe or Ethernet	PCIe
Device Types Supported	2.5" U.2 NVMe SSD	GPU FPGA AIC SSD FHFL
Device Quantity	32x U.2 NVMe SSD	8x Double Wide or 10x Single Wide
Device Interface	PCIe Gen 3.0 x16	PCIe Gen 4.0 x16
Internal PCIe Slots	2x Gen 3.0 x16	12 Gen 4.0 x16
Interface Ports	PCIe: Up to 4x Gen 3.0 x16 Eth: Up to 2x 200GbE NICs	PCIe: 2x Gen 4.0 x16 (expand 4x) Eth: NA
Bandwidth - Port	Up to 32GB/s – Full Duplex	Up to 64 GB/s – Full Duplex
Bandwidth - Total	Up to 128GB/s – Full Duplex	Up to 256 GB/s – Full Duplex
PCIe Fabric Latency	150 ns	100 ns
Liquid Management Port	N/A	2x PCIe ports
Chassis Monitoring	1x RJ45 for IPMI	1x RJ45 for IPMI
Chassis Cables	PCIe: MiniSAS HD	PCIe: MiniSAS HD
Power	Dual 1000W w/PMBus	Dual 2600W
Input Voltage	200–240Vac	200–240Vac
Operating Temperature	10°C to 35°C	0°C to 35°C
Operating Humidity	8% to 90%	10% to 90%
Cooling	8x 40mm Hot-swap cooling fans	3x 180CFM 120mm fans
Dimensions	17.25" x 1.71" x 31.95"	17.2" x 7" x 18.5"
Weight	49 lbs	38.5 lbs
Cerifications	RoHS, FCC, CE, VCCI, C-tick, UL Listed, CB/IEC	FCC, CE, UL, cUL, RoHS3