Compose Bare-Metal Machines in Seconds

Adjusting to real-time business requirements is paramount in the modern data center. Liqid empowers IT administrators to manage, scale, and configure physical bare-metal server systems in seconds and then reallocate core data center devices on-demand as business needs evolve.

Pools of storage, compute, networking, graphics processing (GPU) and FPGA devices are interconnected over Gen4 PCIe to deliver dynamically configurable bare-metal servers perfectly sized with the exact physical resources required by the application being deployed.

Our intelligent fabric switching technology, Liqid Grid, allows core system resources to be instantly interconnected into physical servers via a Gen4 PCI-Express (PCIe) fabric, and dynamically reconfigured as needed.

Liqid Command Center™ is the powerful management software platform that automates, orchestrates, and composes physical computer systems from pools of bare-metal resources.

Liqid enables IT administrators to deliver adaptive compute infrastructure and scale core resources on demand for the world’s most data-intensive workloads.

Liqid Command Center™
Composable management software that automates, orchestrates, and dynamically composes physical computer systems from pools of individual bare-metal elements.

LQD9448 Liqid PCIe Gen4 Fabric
The low latency, intelligent, and managed switching fabric that electrically interconnects pools of disaggregated system elements.
TECHNICAL SPECIFICATIONS

Liqid Command Center™ Management Software
SKU L20SW-CC9000-000
Description Liqid Command Center 2.2 Orchestration Software
Bare-Metal Machine Orchestration
Policy-based Automation and Provisioning
Cluster Management (Create, Edit, Delete)
Bare-Metal Machine Management (Create, Edit, Delete)
Device Management (CPU, NIC, SSD/HDD, GPU and FPGA)
Package Management (OS Deployment, Configuration, Snapshots)
Advanced Cluster, Machine, and Device Statistics & Monitoring
Multiple Control Methods: GUI, RESTful API, and CLI
Secure, Remote Configuration and Management over IPv4/IPv6
Fabric Scale-Out & Scale-Up Capable
High Availability (Device/machine failover and migration)
Error, Event and Status Notifications
System Alarms
Advanced GPU peer-to-peer support
Advanced Fabric DMA NIC
Multi-Fabric Support

LQD9448 Liqid PCIe Gen4 Fabric Hardware Specifications
SKU L9448-096L48-04N
Description Grid LQD9448 // 1U, PCIe Gen 4.0 Switch, 48 Ports, Data
Solution Composable Infrastructure Controller
Management Liqid Command Center™
Protocol Managed PCIe Gen 4.0 Switching Fabric
Architecture Disaggregated Bare-metal Infrastructure
Physical Interconnect Photonics and/or Copper over MiniSAS HD Cabling
Number of Ports Up to 48-Ports per switch, Gen4.0 x4 per Port
Port Bandwidth 16 GB/s – Full Duplex
Total Bandwidth 768 GB/s – Full Duplex
Port Latency 100 ns
Management CPU Intel Xeon D-1548 – 2.00 GHz 64 GB DDR4 w/ECC
Port Configurations x4, x8, or x16 (SRIS Ready)
Management port Secured, 1 GBASE-T
Fail Over N+1 Support via Multi Switch
Scalable Multi-switch Topologies - Star, Mesh, other
Typical Power 225 W
Input Voltage 90-264 VAC
PSU 200 W x2 (Redundant fail in place, field replaceable)
Cable Mini-SAS HD - short and long range copper or photonics
Dimensions 1 RU (H - 43.8 mm , W - 200.0 mm, D - 508.0 mm)
Weight 6.75 kg (15 LB)