Composable 
NVIDIA GPU

Liqid Command Center™ Software Enables Composable GPU PCIe-enabled, Direct-Connected Resource

Liqid delivers improved resource management and utilization with software-defined infrastructure composability for GPU solutions. Composable, high-performance GPU resources are allocated through software at bare metal across Liqid’s ultra-low-latency platform simplifying scalability and resource orchestration. Unlocking the performance and efficiency necessary for a wide variety of use cases in artificial intelligence and machine learning, Liqid enables the clustering of dozens of GPUs for the most demanding workloads, real-time GPU to CPU allocation, and even CPU bypass for “peer-to-peer” data transactions.

Liqid’s intelligent PCIe fabric and Command Center software enable IT users to significantly increase capacity and bandwidth for GPU-based solutions, supercharging the most demanding applications for which lighting fast data manipulation is imperative. With the improved resource management and utilization Liqid delivers, IT users can integrate disaggregated GPU with FPGAs, CPUs, and Intel® Optane™ memory extension technologies to create balanced systems and recognize exponential increases in resource utilization without increasing the data center footprint.

Composable GPU on Liqid fabrics expands the promise of composability, allowing IT users to create and maintain a more efficient data center infrastructure to meet the crushing and uneven data performance requirements of today’s AI-driven compute environments, as well as prepare for emerging, high value applications.
Liqid Composable NVIDIA GPU Specifications

Architecture: NVIDIA GPU Pool Connected Over PCIe
Capacity Count: 4x GPU per 2U Expansion Chassis
Scalability: Up to 100 Chassis with External PCIe Fabric
Host Interconnect: PCIe Gen3 (x16, x8, or x4 options)
Host Connections: Up to 8 Host per Chassis (8x4 or 4x8 or 2x16)
Max Host Count: 100s Hosts with External PCIe Fabric Switch
Total Bandwidth: ~50 GB/s – Full Duplex (per Chassis)
Cabling to Host: Standard MiniSAS HD Cabling
Management SW: Liqid Command Center™
Fail Over: HA Optional Support
Power: 2000W (per Chassis)
Cooling: 4x 35mm High Performance Fans

Composable Bundle LQD8340 GPU JBOx

Contents of the Solutions Bundle include:

<table>
<thead>
<tr>
<th>Device</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software</td>
<td>1pcs</td>
<td>Liqid Command Center Management SW</td>
</tr>
<tr>
<td>Fabric</td>
<td>1pcs</td>
<td>Liqid Grid - PCIe Gen3 Fabric Switch</td>
</tr>
<tr>
<td>HBA</td>
<td>8pcs</td>
<td>Liqid PCIe Host Bus Adapters</td>
</tr>
<tr>
<td>Expansion</td>
<td>1pcs</td>
<td>PCIe Expansion Chassis</td>
</tr>
<tr>
<td>GPU</td>
<td>4pcs</td>
<td>NVIDIA GPU</td>
</tr>
</tbody>
</table>

*All cables included

Contact Information

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