



Fully integrated PCIe Fabric Delivers Software-defined composability for the most data-intensive workloads

The Liqid Host Bus Adapter (HBA) PCIe x16 Gen 4 switch-based cable adapter integrates Broadcom Technologies ExpressFabric PEX88000 PCIe Gen 4.0 series, a fully non-blocking and low-latency PCI Express Gen 4 switch. Liqid's HBA is purpose built for composability, ensuring software-defined composable systems from Liqid perform at the highest levels of efficiency.

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.

Connect vendor-agnostic Liqid GRID composable switching technologies and Command Center software to the server motherboard via Gen 4 PCI-Express for unprecedented infrastructure adaptivity. Enable greater hardware disaggregation, integrating off-the-shelf CPU, NVMe storage, and networking in tandem with accelerator technologies such as GPU, FPGA and Intel Optane memory for unprecedented, software-defined, bare metal performance.

With Liqid, these pooled resources can now be dynamically configured and reconfigured on demand to create servers perfectly sized with the exact physical resources required by the application being deployed.

As a core element of the Liqid composable platform, the Liqid HBA is central to enabling IT administrators to deliver adaptive compute infrastructure and scale core resources on demand for the world's most data-intensive workloads.

- > Up to 256Gb/s at PCIe Gen 4 speeds
- > Requires no additional software

Key Features

- Half-card form factor
- PCle Gen4 x16 upstream port
- PCle Gen4 x16 downstream port
- PCIe Gen4 x8 for two down stream ports
- PCIe Gen4 x4 for four down stream ports

Model: LQD1416 Host Bus Adapter **Specification** Form Factor PCIe Gen4x16 half-height, half-length add-in card Dimensions 6.14" x 2.89" (156mm x 73.4mm) Maximum 15W Power Connectors SFF-8644 or SFF-8643 **Operating Temperature** 0C to 50C **Storage Temperature** -40C to 85C **Operating Humidity** 10% to 90% relative humidity non-condensing Storage Humidity 5% to 95% relative humidity non-condensing PCB PCI Express add-in card standard Thickness .063" +/- 0.008" (1.6mm +/- 0.2mm) **PCIe Switch** Broadcom PEX88032 16.0 GT/s 34-Lane PCI Express Gen4 Switch **DMA** Controller SSC Isolation Support **Supports surprise hot plug in on downstream ports in both Windows and Linux **Must have m/b that supports PCIe native mode OS in

Selection

L1416-016L04-040

PCIe Gen 4.0 x16 Host Adapter Card (HBA)

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

Ligid, Inc.

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About Ligid

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.

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the Bios and running Server 2012 R2 or higher (no desktop



High Performance PCIe connectivity For Dell PowerEdge MX7000

For workloads like AI that require parallel accelerated computing, the addition of GPU acceleration within the PowerEdge MX7000 is paramount. Liqid LQD1325 U.2 to PCIe host bus adapters (HBA) enable PCIe connectivity to Dell compute sleds enabling accelerator composability to Dell PowerEdge MX7000. The PCIe x4 Gen 3 cable adapter is integrated with a fully non-blocking and low-latency PCI Express Gen 3 switch.

Simply insert HBA into an available U.2 drive bay and go. No drive tray/caddy needed. Once Dell MX compute sleds are connected to Liqid GRID PCIe switching technology and Command Center software new levels of infrastructure flexibility are possible. Enable hardware disaggregation, integrating off-the-shelf CPU, NVMe storage, and networking in tandem with accelerator technologies such as GPU, FPGA and Intel Optane memory for unprecedented, software-defined, bare metal performance.

Liqid PCIe composability for the Dell EMC PowerEdge MX7000 unlocks the ability to manage the most demanding workloads in which accelerators are required for both new and existing deployments, and the LQD1325 is key to unlocking these capabilities.

- > Up to 64Gb/s at PCIe Gen 3 speeds
- > Requires no additional software

Key Features

- Accelerator Composability for MX7000
- U.2 HBA form factor
- Plug and play simplicity



Specification

Model: LQD1325 Host Bus Adapter

Form Factor	PCIe x4 U.2 Adapter
Dimensions	4.42"x.63"x2.93"
Power	10 Watts Max
Connectors	SFF-8808
Storage Temperature	-40 to 75C
Operating Humidity	5% to 95% (non-condensing)
Storage Humidity	5% to 95% relative humidity non-condensing



Selection

L1325-004L01-030

PCIe x4 Gen 3.0 Host Adapter Card (HBA)

Please contact your sales rep for more information and to determine which configuration is best for use. Specification subject to change without notice.

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