



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

The LIQID Host Bus Adapter (HBA) PCIe x16 Gen 5 switch-based cable adapter integrates Broadcom Technologies ExpressFabric PEX89032 PCIe Gen 5.0 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 Matrix™ software to the server motherboard via Gen 5 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 and FPGA 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 128GB/s at PCIe Gen 5 speeds
- > Requires no additional software

Key Features

- Half-card form factor
- PCIe Gen5 x16 upstream port
- PCIe Gen5 x16 downstream port

Specification

Form Factor	PCIe Gen 5 x16 HHHL add-in card
Dimensions	6.6" x 2.65" (16.76cm x 6.73cm)
Power	Maximum 27W
Latency	115 nsec
Connectors	CDFP
Operating Temperature	-10C to 40C
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 PEX89032 32GT/s 32 lanes PCIe Gen5 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 the Bios and running Server 2012 R2 or higher (no desktop versions)

[User Guide for Gen5 HBA](#)

Selection

HX-5160-1C

PCIe Gen 5.0 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

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About LIQID

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.