

SDSC





GigalO FabreX AIC Resource Box with Nvidia K80 GPUs

Native PCIe Fabric Increases the Utilization, Scaling and Efficiency of GPU Workloads

Unrivaled PCIe Performance:

 GigalO FabreX[™] creates a native PCIe network fabric offering the same performance as internal PCIe slots.

Increased utilization of GPUs:

 FabreX increases the utilization of GPUs dramatically reducing CapEx and OpEx.

Seamless Support for S/W Stack:

- CentOS, Ubuntu, CUDA 10.0, GCC, MPI libraries
- Minimal Application S/W rework

Composable Infrastructure with Accelerators:

• Combined they create an ideal composable environment for high performance computing and AI workloads.

Adapts to Constantly Changing Needs: Modern workloads perpetually grow and change, so data center architectures need to evolve to support business needs. This involves deploying infrastructure in ways that can be reconfigured with software to support present and future requirements.

Best Fabric for GPU: Running GPUs over native PCIe network fabric – among the fastest interfaces in computing – achieves better performance and utilization than Ethernet, Fibre Channel, or InfiniBand fabrics. That's why FabreX can network GPU PCIe accelerator cards without lowering performance.

Optimum Accelerator Utilization: The system illustrated above creates a GPU composable environment sharing PCIe accelerator cards among servers improving utilization and efficiency. The resulting system is configured, managed, and monitored using open standards APIs including DMTF Redfish®.