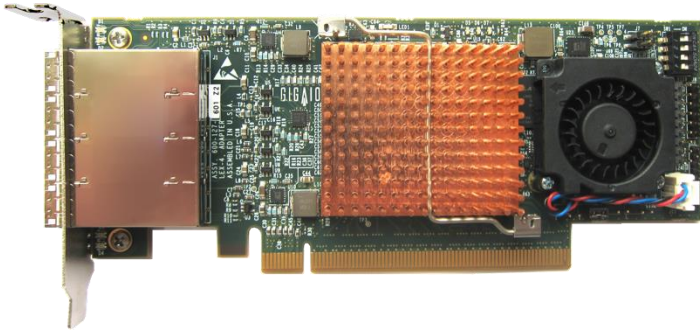


## FA4004 - FabreX Gen4 PCIe Adapter For Hyper-Performance Rack-Scale Composable Infrastructure



GigalIO™ FabreX™ Network Adapter Card enables non-blocking low-latency PCIe Gen4 rack-scale composable disaggregated infrastructure for advanced scale computing. It gives AI/ML, HPC, and Data Analytics users the flexibility to create exactly the system they need for optimized performance and reduced total cost of ownership.

The FabreX Network Adapter card supports the high-performance, cabled interface to rack-scale cluster subsystems across the FabreX hyper-performance network. This Gen 4.0 network adapter card delivers twice the capacity of the FabreX Gen 3.0 Adapter Card and is backward compatible with previous generations of hosts and devices. The card includes both host and target (for PCIe I/O) modes and is FPGA-powered for configuration flexibility.

This Gen4 adapter enables the creation of shared pools of vendor agnostic PCIe devices from GPUs to FPGA to Storage or memory, any PCIe compliant device. It also enables unique features such as auto-discovery and management of disaggregated resource pools.

### HIGHLIGHTS

#### HIGH PERFORMANCE

Up to 256Gb/sec at PCIe Gen 4 speeds

#### EFFICIENT DATA TRANSFER

RDMA and Programmed IO for large or small packets

#### AUTO DISCOVERY

Automatically discover devices as they are added or removed from network

#### LOW PROFILE, HALF-HEIGHT CARD

Full-height and half-height brackets included

## Cables

PCIe 4.0 cabling with SFF-8644 connectors and the Cable Management Interface (CMI) on all ports ensures low cost and simplicity.

The FabreX Network Adapter Card is designed for maximum cable length at full PCI Express Gen 4 speed. Copper cables can connect up to 3 meters or use active optic cables to extend the distance up to 100 meters.

## FabreX Host Card Specifications

<b>Form factor</b>	PCIe Gen4 x16 half-height, half-length add-in card
<b>Dimensions</b>	68.9mm x 167.65mm
<b>Ports</b>	4 x4 PCIe Gen 4 ports supporting x4, x8 or x16 configurations.
<b>Performance</b>	x4 (64 Gbits/sec) Half Duplex, (128 Gbits/sec) Full Duplex x8 (128 Gbits/sec) Half Duplex, (256 Gbits/sec) Full Duplex x16 (256 Gbits/sec) Half Duplex, (512 Gbits/sec) Full Duplex
<b>LED Indicators</b>	Status indicators for each of the x4 ports
<b>Host and Target</b>	Single board supports both host and target mode
<b>Connectors/Cables</b>	SFF-8644 Copper Cables up to 3 meters Cable Management Interface (CMI) on all Ports Active Optical Cable (AOC) up to 100 meters
<b>Power</b>	10 Watts typical, 17 Max. (Max. = all 4 ports with Active Optical Cable)
<b>Operating Systems Supported</b>	RHEL CentOS Ubuntu
<b>PCIe Bracket</b>	Half height plate mounted Full height plate included
<b>Environmental</b>	Operating temperature: 0°C to 50°C (32°F to 122°F), Air Flow: 10 LFM Relative humidity: 5% to 95% (non-condensing)

## FabreX Host Cable Specifications



<b>Cables</b>	Copper Cables up to 3 meters Cable Management Interface (CMI) on all Ports Active Optical Cable (AOC) up to 100 meters
<b>Configurations</b>	x4, x8, or x16 (Cable Management Interface on all ports)
<b>Cable Connectors</b>	SFF-8644

## About GigaIO

GigaIO is pioneering cloud-class, rack-scale composable disaggregated infrastructure that is as fast and as agile as your workloads.