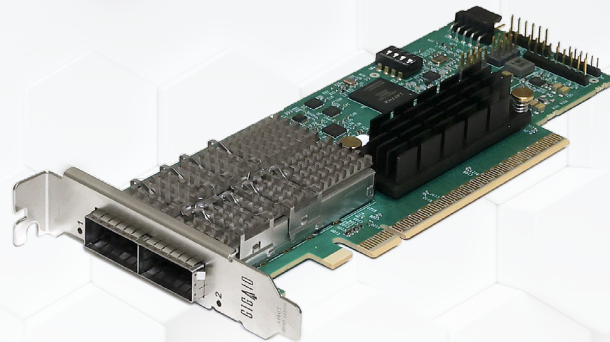


# GigaIO™ Fabric Card



## HIGH PERFORMANCE

Up to 512Gb/s speed | 128GB/s bandwidth

## LOWEST LATENCY

Less than 10ns

## EASY TO USE CABLING

Dual QSFP-DD connections for copper or optical

## LOW PROFILE

Fits in full- or half- height PCIe slots

## IDEAL FOR

- AI/ML training and inferencing clusters
- High-performance computing environments
- Data analytics acceleration
- Composable infrastructure deployments
- Scale-up computing architectures

## Specifications

<b>Model</b>	FR5002, Fabric Card, 2-port QSFP-DD, PCIe low-profile
<b>Data rate</b> (each direction)	512Gb/s (2x 256Gb/s)
<b>Bandwidth</b> (bi-directional)	128GB/s (2x 64GB/s)
<b>Latency</b>	< 10ns
<b>Form factor</b>	PCIe low profile half height half length (HHHL) single slot wide
<b>Ports</b>	Dual QSFP-DD PCIe x8 256Gb/s NRZ
<b>Port configuration</b>	Each port configured as single x8 (256Gb/s) Aggregate two ports as x16 (512Gb/s)
<b>Cable support</b>	Direct attached copper (DAC) up to 2m, Optical transceivers with passive fiber up to 30m*
<b>Modes</b>	<b>host</b> for server node installation <b>target</b> for pooling appliance installation
<b>Silicon</b>	Aries PT5161LX with CXL support
<b>Host interface</b>	PCIe 5.0 x16
<b>Management</b>	Plug-n-play Per port LED status indicators Dip-switch for host/target mode selection
<b>Mechanical bracket</b>	Half-height PCIe bracket - mounted Full-height PCIe bracket - included
<b>Dimensions</b>	68.9mm x 167.65mm (2.7" x 6.6")
<b>Weight</b>	0.8 lbs (363 g) Net
<b>Slot power</b>	20W typical, 25W maximum
<b>Environmental</b>	Operating temperature: 0°C to 50°C (32°F to 122°F) Relative humidity: 5% to 95% (non-condensing) Slot airflow requirement: 150 LFM
<b>Regulatory (pending)</b>	CE Mark EN55032 EN55024 Class A FCC 15 Subpart B Class A RoHS WEEE

## READY TO GET STARTED?

Contact a GigaIO authorized representative today.

[info@gigaio.com](mailto:info@gigaio.com)

\* End user application latency may shorten range; speak with a representative for more information.

