

GigalIO™ Fabric Switch

ULTRA-HIGH PERFORMANCE

6.1Tb/s switch capacity with industry-leading sub-130ns latency

ULTIMATE FLEXIBILITY

Any accelerator on demand

UNPRECEDENTED SCALABILITY

Scale up to 32 GPUs

SIMPLIFIED DEPLOYMENT

RESTful APIs and CLI

IDEAL FOR

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



Specifications

Model	RS5012, Fabric Switch, 12-port QSFP-DD, 1U
Switch capacity (bi-directional)	6.1Tb/s
Data rate (each direction)	3.072Gb/s (6x 512Gb/s)
Bandwidth (bi-directional)	768GB/s (6x 128GB/s)
Latency	< 130ns
Form factor	1U 19" rack-mountable chassis reversible options
Ports	12x QSFP-DD PCIe x8 256Gb/s NRZ
Port configuration	Each port configured as single x8 (256Gb/s) Aggregate two ports as x16 (512Gb/s)
Port modes	Upstream ports to host nodes Downstream ports to pooling appliances Switch to switch crosslinks Non-Transparent (NT) for scaling network and connecting to additional switches
Cable support	Direct attached copper (DAC) up to 2m Optical transceivers with passive fiber up to 30m*
Silicon	Switchtec™ PM50100
Management	GigalIO Fabric Manager featuring Redfish® RESTful APIs and CLI Per port LED status indicators 1GbE-RJ45 management port 2x USB 2.0 ports HDMI display Power switch with status indication
Power	Dual 1+1 redundant power supplies IEC-320-C13 power inlet, 100 to 240VAC, 50 to 60Hz 225W typical, 300W maximum
Fans	Serviceable fan tray Airflow options for port to power or power to port
Dimensions	17.4" W x 1.75" H x 15" D (442mm W x 450mm H x 380mm D)
Weight	15 lbs (6.80 kg) net
Environmental	Operating Temperature: 10°C to 35°C (50°F to 95°F) Storage Temperature: -25°C to 70°C (-13°F to 158°F) Relative Humidity: 5% to 95% (non-condensing)
Regulatory (pending)	CE Mark / UL / CSA / CB, EN-60950-1 (2005-13), EN-55022 (2010), EN 55024 (2010), EN 61000-6-2 (2005), Class A FCC Class A, RoHS, WEEE

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

READY TO GET STARTED?

Contact a GigalIO authorized representative today.

info@gigaio.com

