

## GigaIO™ FabreX™ Switch Specifications

<b>Dimensions</b>	17.4"W x 1.75"H x 13"D (44.2 x 4.5 x 33 cm)
<b>Width &amp; Height</b>	19 inch 1U rack-mountable
<b>Management</b>	Open systems FabreX OS with DTMF Redfish Composable APIs
<b>Protocol</b>	Industry standard PCIe Gen 3 protocol
<b>Architecture</b>	Fully disaggregated with dynamic composability
<b>Port Side</b>	<p>24 Ports of x4 PCIe Gen 3 Link (32 Gbits/sec) Half Duplex, (64 Gbits/sec) Full Duplex            Adjacent Ports to form x8 (64 Gbits/sec) Half Duplex, (128 Gbits/sec) Full Duplex and x16 PCIe Gen 3 Link (128 Gbits/sec) Half Duplex, (256 Gbits/sec) Full Duplex</p> <p>Ports configurable to attach to PCIe Endpoint:</p> <ul style="list-style-type: none"> <li>• With Root Complex Processor (RCP)</li> <li>• Without RCP</li> </ul> <p>2 Gigabit Ethernet Port            2 USB 2.0 Port            Display Port (DP)            LED for Link Status of every port            Power Switch with status indication            Audio alarm</p>
<b>Power Side</b>	IEC-320-C13 power receptacle; 100 to 240 VAC, 50 to 60 Hz; 75 Watts Typical, 100 Watts Max.
<b>Management CPU</b>	Intel Atom
<b>PCIe/Cables</b>	<p>PCIe connectors (SFF-8644)            Copper Cables up to 5 meters            Cable Management Interface (CMI) on all Ports            Active Optical Cable (AOC) up to 100 meters</p>
<b>Latency</b>	<p>24 Ports Non-Blocking</p> <ul style="list-style-type: none"> <li>• x16 Link-Byte latency from any port to any other port is 43 nsec</li> <li>• x8 Link-Byte Latency from any port to any other port is 86 nsec</li> <li>• x4 Link-Byte Latency from any port to any other port is 172 nsec</li> </ul>
<b>Bandwidth</b>	<p>24 Ports Non-Blocking</p> <ul style="list-style-type: none"> <li>• x4 (32 Gbits/sec) Half Duplex, (64 Gbits/sec) Full Duplex</li> <li>• x8 (64 Gbits/sec) Half Duplex, (128 Gbits/sec) Full Duplex</li> <li>• x16 (128 Gbits/sec) Half Duplex, (256 Gbits/sec) Full Duplex</li> <li>• Total FabreX Bandwidth 768 Gbits/sec Half Duplex, 1,563 Gbits/sec Full Duplex</li> </ul>
<b>Environmental</b>	<p>Operating Temperature: 0°C to 40°C (32°F to 104°F), Air Flow: 150 LFM            Operating Temperature with AOC: 0°C to 45°C (32°F to 113°F), Air Flow: 150 LFM            Storage Temperature: -25°C to 70°C (-13°F to 158°F)            Relative Humidity: 5% -95% (non-condensing)</p>
<b>Compliance</b>	<p>CE Mark            Compliance with EN-55022 (2010), EN 55024 (2010), EN 61000-6-2 (2005), Class A.            RoHS            FCC Class A.            WEEE compliant</p>
<b>Weight (net)</b>	6.80 kg (15 LB) with dual power supplies
<b>Fail Over</b>	N+1 with Multi-Switch configurations
<b>Scalable</b>	Topologies - Star, Mesh or Tree with Multi-Switch configurations

### FabreX Host Card Specifications

<b>Dimensions</b>	Low profile half height PCIe card 68.9mm x 167.65mm
<b>Ports</b>	4 x4 PCIe Gen 3 ports supporting x4, x8 or x16 configurations.
<b>Performance</b>	x4 (32 Gbits/sec) Half Duplex, (64 Gbits/sec) Full Duplex x8 (64 Gbits/sec) Half Duplex, (128 Gbits/sec) Full Duplex x16 (128 Gbits/sec) Half Duplex, (256 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>	PCIe connectors (SFF-8644) Copper Cables up to 5 meters Cable Management Interface (CMI) on all Ports Active Optical Cable (AOC) up to 100 meters
<b>Topologies</b>	One x16 connection, Two x8 connections or Four x4 connections
<b>Power</b>	10 Watts typical, 17 Max. (Max. = all 4 ports with Active Optical Cable)
<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 Cable Specifications

<b>Cables</b>	Copper Cables up to 5 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>	PCIe connectors (SFF-8644)