



SPECIFICATION SHEET

GigalO™ FabreX™ Gen3 & Gen4 Top of Rack Switch Specifications

Dimensions	17.4"W (44.2 cm) x 1.75"H (4.5 cm) x 15"D (38 cm)			
Width & Height	19" rack-mountable chassis, 1U			
Management	Open systems FabreX OS with DMTF Redfish® Composable APIs			
Protocol	Industry standard PCI Express protocol			
Architecture	Fully disaggregated with dynamic composability			
Port Side	24 Ports of x4 PCIe Gen 3.0 Link or Gen 4.0 Link Ports configurable to attach to PCIe Endpoint: <ul style="list-style-type: none"> • With Root Complex Processor (RCP) • Without RCP 2 Gigabit Ethernet Port 2 USB 2.0 Port DisplayPort® (DP) LEDs for Stack Bifurcation, Link Status and Activity for every port Power Switch with status indication Audio Alarm			
Power Side	IEC-320-C13 power receptacle; 100 to 240 VAC, 50 to 60 Hz; 75 Watts typical, 100 Watts Max.			
Management CPU	Intel Atom®			
Latency	24 Ports Non-Blocking port to port latency of less than 170ns (Gen 3) and less than 110 ns (Gen 4)			
Bandwidth	24 Ports Gen 3.0 Non-Blocking (Gbits/sec)		24 Ports Gen 4.0 Non-Blocking (Gbits/sec)	
	Half Duplex	Full Duplex	Half Duplex	Full Duplex
	x4 -- 32 Gb/s	x4 -- 64 Gb/s	x4 -- 64 Gb/s	x4 -- 128Gb/s
	x8 -- 64 Gb/s	x8 -- 128 Gb/s	x8 -- 128 Gb/s	x8 -- 256 Gb/s
	x16 -- 128 Gb/s	x16 -- 256 Gb/s	x16 -- 256 Gb/s	x16 -- 512 Gb/s
	Total -- 768 Gb/s	Total -- 1,536 Gb/s	Total -- 1,536 Gb/s	Total -- 3,072 Gb/s
Environmental	Operating Temperature: 0°C to 40°C (32°F to 104°F), Storage Temperature: -25°C to 70°C (-13°F to 158°F) <ul style="list-style-type: none"> • Relative Humidity: 5% to 95% (non-condensing) 			
Safety and Compliance	CE Mark / UL / CSA / CB Compliance with EN-60950-1 (2005-13), EN-55022 (2010), EN 55024 (2010), EN 61000-6-2 (2005), Class A. FCC Class A. RoHS WEEE compliant			
Weight (net)	15 lb (6.80 kg) with dual power supplies			
Fail Over	N+1 with Multi-switch configurations			
Scalable	Topologies - Star, Mesh or Tree with Multi-switch configurations			

GigalO FabreX Gen3 & Gen4 Network Adapter Card Specifications

Dimensions	Low profile, half height PCIe card 68.9mm x 167.65mm			
Ports	4 x4 PCIe Gen 3.0 or Gen 4.0 ports supporting x4, x8 or x16 configurations.			
Performance	24 Gen 3.0 Ports Non-Blocking Bandwidth		24 Ports Gen 4.0 Non-Blocking Bandwidth	
	Half Duplex	Full Duplex	Half Duplex	Full Duplex
	x4 (32 Gbits/sec)	x4 (64 Gbits/sec)	x4 (64 Gbits/sec)	x4 (128 Gbits/sec)
	x8 (64 Gbits/sec)	x8 (128 Gbits/sec)	x8 (128 Gbits/sec)	x8 (256 Gbits/sec)
	x16 (128 Gbits/sec)	x16 (256 Gbits/sec)	x16 (256 Gbits/sec)	x16 (512 Gbits/sec)
	Total 768 Gbits/sec	Total 1,536 Gbits/sec	Total 1,536 Gbits/sec	Total 3,072 Gbits/sec
LED Indicators	Status indicators for each of the x4 ports			
Host and Target	Single board supports both host and target mode			
Power	10 Watts typical, 17 Max. (Max. = all 4 ports with Active Optical Cable)			
PCIe Bracket	Half height plate mounted Full height plate included			
Environmental	Operating temperature: 0°C to 50°C (32°F to 122°F), Air Flow: 10 LFM Relative humidity: 5% to 95% (non-condensing)			

GigalO FabreX Gen3 & Gen4 Cable Specifications

Cables	Gen3 -- Copper Cables up to 5 meters	Gen4 -- Copper Cables up to 3 meters
	Cable Management Interface (CMI) on all Ports	
	Active Optical Cable (AOC) up to 100 meters	
Configurations	x4, x8, or x16 (Cable Management Interface on all ports)	
Cable Connectors	PCIe connectors (SFF-8644)	