

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

Form Factor	1U 19" rack-	mountable chassis						
Architecture	Fully disaggregated with dynamic composability							
Scalability	Star, Mesh or Tree Topologies including multi-switch configurations. See Support Portal for supported Topologies							
Fail Over	N+1 with mu	N+1 with multi-switch configurations						
Protocol	Industry standard PCI Express protocol							
Management	Open systems GigalO [™] FabreX [™] OS with DMTF Redfish® Composable APIs Onboard Intel Atom® Processor							
Port-Side	24 Ports of PCIe Gen 4.0 x4 Link or Gen 3.0 x4 Link Mini-SAS HD (SFF-8644) with Sideband Cable Management Interface (CMI) Ports configurable as: • Upstream ports to host root complex • Downstream ports to resource endpoints 2 Ports of Gigabit Ethernet 2 Ports of USB 2.0 DisplayPort® (DP) LEDs for Stack Bifurcation, Link Status and Activity on 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 maximum							
Connections Support	Groupings: x4 Link (single cable), x8 Link (two cables), or x16 Link (four cables)							
		Gen 4 Non-Blocking		Gen 3 Non-Blocking				
	Grouping	Half Duplex	Full Duplex	Half Duplex	Full Duplex			
Bandwidth	24 x4 Link	x4 - 64 Gb/s	x4 - 128 Gb/s	x4 - 32 Gb/s	x4 - 128 Gb/s			
Janaman	12 x8 Link	x8 - 128 Gb/s	x8 - 256 Gb/s	x8 - 64 Gb/s	x8 - 256 Gb/s			
	6 x16 Link	x16 - 256 Gb/s	x16 - 512 Gb/s	x16 - 128 Gb/s	x16 −512 Gb/s			
		Total - 1.54 Tb/s	Total - 3.07 Tb/s	Total - 768 Gb/s	Total - 1.54 Tb/s			
Latency	24 Ports Non-Blocking port-to-port latency of less than 110ns (Gen 4) and less than 170 ns (Gen 3)							
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) Relative Humidity: 5% to 95% (non-condensing)							
Regulatory	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							
Dimensions	17.4"W (44.2 cm) x 1.75"H (4.5 cm) x 15"D (38 cm)							
Weight (net)	4.511 /6.00 1	g) with dual power sup	1.					



GigalO™ FabreX™ Gen4 & Gen3 Network Adapter Card Specifications

Form Factor	I ow profile	half height PCIe card							
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Modes	Host or target								
Ports	4 Ports of PCIe Gen 4.0 x4 Link or Gen 3.0 x4 Link Mini-SAS HD (SFF-8644) Support for Sideband Cable Management Interface (CMI) Support for Copper cables and Active Optical Cable (AOC)								
Host Interface	PCIe x16 edge connector								
Connections Support	Groupings: x4 Link (single cable), x8 Link (two cables), or x16 Link (four cables) supported by Target and Host modes. Additionally, Host mode bifurcation supports 2 x4 (two cables) and 2 x8 (four cables)								
		Gen 4 Non-Blocking	ı	Gen 3 Non-Blocking					
	Grouping	Half Duplex	Full Duplex	Half Duplex	Full Duplex				
Bandwidth	x4 Link	x4 - 64 Gb/s	x4 - 128 Gb/s	x4 - 32 Gb/s)	x4 - 64 Gb/s)				
	X8 Link	x8 - 128 Gb/s	x8 - 256 Gb/s	x8 - 64 Gb/s)	x8 - 128 Gb/s)				
	X16 Link	x16 - 256 Gb/s	x16 - 512 Gb/s	x16 - 128 Gb/s)	x16 - 256 Gb/s)				
Indicators	Per port status LED indicators. External port numbers 1 through 4 marked on the bracket								
Power	15 Watts typical, 20 Max. (Max. = all 4 ports with Active Optical Cable)								
Mounting	Half height PCIe bracket - mounted Full height PCIe bracket - included								
Environmental	Operating temperature: 0°C to 50°C (32°F to 122°F) Relative humidity: 5% to 95% (non-condensing)								
Regulatory	CE Mark, EN55032, EN55024 Class A, FCC 15 Subpart B Class A, RoHS, WEEE								
Operating System Support	CentOS, Ubuntu, Rocky								
Thermal Control	Minimum Required Air Flow: 10 LFM Onboard active-fan								
Dimensions	68.9mm x 1	67.65mm							

GigalO™ FabreX™ Gen4 & Gen3 Cable Specifications

Туре	PCIe external cable Mini-SAS HD (SFF-8644)						
Connections Support	Groupings: x4 Link (single cable), x8 Link (two ca	6 Link	(four ca	bles)			
Maximum Length	Gen 4 – Copper Cables up to 3 meters	Gen 3 -	Coppe	Cables	up to	5 meters	
	Active Optical Cable (AOC) up to 100 meters						
Sideband Management	Cable Management Interface (CMI)						

