

# ExpressPort® QSFP+

## Product Description

The ExpressPort® QSFP+ interconnect system is comprised of a 38 position 0.8mm pitch SMT connector, and a press-fit cage. With four channels of data in one pluggable, the system interface is capable of transferring data up to 28 Gbps/Channel, and replacing up to 4 standard SFP+ receptacles. These features result in greater port density and overall cost savings over traditional SFP+ products. Supporting standards include, Gigabit Ethernet, InfiniBand, and SON-ET/SDH with different data rate options. ExpressPort® QSFP+ includes cages in single, ganged and stacked configurations with multiple heat sink options supporting various thermal requirements and port status with light pipes options.

Applications		SFF Supported Standards
Data Servers	SAN, NIC cards	<b>ExpressPort QSFP+</b>
Router/Switches	HBA'S	Connector SFF-8682
Hubs		Cage SFF-8683

Product Specifications - ExpressPort® QSFP+			
CONNECTOR		CAGE	
<b>Materials Specifications</b>			
<b>Housing</b>	Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic	<b>PCB Thickness</b>	1.44 mm MIN for single mounted. (1xN)
<b>Contacts Base Material</b>	Phosphor Bronze	<b>Belly to Belly</b>	2.85 mm MIN for 1xN. 1.57 mm MIN for 2xN.
<b>Contact Normal Force</b>	50 grams min.		
<b>Plating Solder Tails</b>	Matte tin		
<b>Plating Mating Area</b>	Gold		
<b>Resonance Dampening Feature</b>	Conductive Polymer		
<b>Operating &amp; Storage Temperature</b>	-40° to +85° C		
<b>Electrical Specifications</b>			
<b>Operating Voltage</b>	30 VDC per contact		
<b>Operating Current</b>	0.5 A per contact		
<b>Differential Impedance</b>	100 Ω +/-10 Ω		
<b>Mechanical Specifications</b>			
<b>Mating Force</b>	40 N Maximum	<b>Unmating Force</b>	30 N Maximum
<b>Durability</b>	250 mating cycles	<b>Insertion Force to PCB</b>	780 N for 1 port 1000 N for 2 Ports 1700 N for 4 Ports 2400 N for 6 Ports
<b>Options</b>			
<b>Packaging</b>	Tape and Reel	<b>Packaging</b>	Tray
<b>EMI Options</b>	Gasket, Spring Fingers		
<b>Cage Mounting</b>	Behind Bezel, Thru Bezel, Hybrid		
<b>Configurations</b>	1XN (N=1,2,3,4,6) 2XN (N=1,2,3)		
<b>Environmental Specifications</b>			
<b>RoHS</b>	Yes		
<b>Halogen Free</b>	Yes		
<b>Flammability Rating</b>	UL 94V-0		



