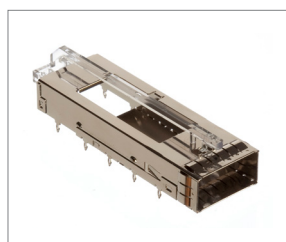
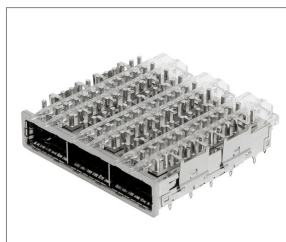
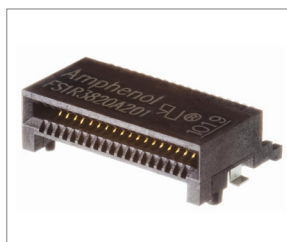


ExpressPort® QSFP+

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	ExpressPort QSFP+	
Router/Switches	HBA'S	Connector SFF-8682	
Hubs		Cage SFF-8683	
Product Specifications - ExpressPort® QSFP+			
CONNECTOR		CAGE	
Materials Specifications			
Housing	Black color, Glass reinfor ced , Lead Free Solder Reflow Process Compatible Thermo Plastic	PCB Thickness	1.44 mm MIN for single mounted. (1xN)
Contacts Base Material	Phosphor Bronze	Belly to Belly	2.85 mm MIN for 1xN. 1.57 mm MIN for 2xN.
Contact Normal Force	50 grams min.		
Plating Solder Tails	Matte tin		
Plating Mating Area	Gold		
Resonance Dampening Feature	Conductive Polymer		
Operating & Storage Temperature	-40° to +85° C		
Electrical Specifications			
Operating Voltage	30 VDC per contact		
Operating Current	0.5 A per contact		
Differential Impedance	100 Ω +/-10 Ω		
Mechanical Specifications			
Mating Force	40 N Maximum	Unmating Force	30 N Maximum
Durability	250 mating cycles	Insertion Force to PCB	780 N for 1 port 1000 N for 2 Ports 1700 N for 4 Ports 2400 N for 6 Ports
Options			
Packaging	Tape and Reel	Packaging	Tray
EMI Options	Gasket, Spring Fingers		
Cage Mounting	Behind Bezel, Thru Bezel, Hybrid		
Configurations	1XN (N=1,2,3,4,6) 2XN (N=1,2,3)		
Environmental Specifications			
RoHS	Yes		
Halogen Free	Yes		
Flammability Rating	UL 94V-0		



Ordering Information

ExpressPort® QSFP+ (Connector)

FS1	SERIES DESIGNATION	FS1	R38	X	0	XX	XX	
R38	STYLE	R38 - 38 Position (QSFP 10G, ExpressPort® QSFP+ 12G+ & 16G)						
X	PLATING	2 - 30 μ" (0.76 μm) Gold Plating on Mating Area; Matte Tin Plating on Termination 3 - 15 μ" (0.38 μm) Gold Plating on Mating Area; Matte Tin Plating on Termination						
0	OPTION 1	0 - Standard						
		SPECIAL - QSFP+ (12 Gbps & UP) 00 - No Resonance Dampening, No Hold Down Tabs 01 - No Resonance Dampening, Hold Down Tabs SPECIAL - QSFP+ (16 Gbps) 10 - Resonance Dampening, No Hold Down Tabs 11 - Resonance Dampening, Hold Down Tabs						XX
		OPTION 2 00 - QSFP Connector A2 - QSFP+ Connector						XX

ExpressPort® Stacked QSFP+

U90	SERIES DESIGNATION	U90	B	X	0	5	4	X	X	1	X	X	0	
B	STYLE	B - Standard												
X	NUMBER OF PORTS IN ROW	1 - 2X1 2 - 2X2 3 - 2X3												
0	HEAT SINK OPTION (No Light Pipe Available)	0 - No Heat Sink Option												
5	APPLICATION	5 - Options Available - Consult Factory												
4	CAGE & CONNECTOR CONTACT PLATING	4 - 30 μ" (0.76 μm) Gold Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel; 15 μ" (0.38 μm) to 60 μ" (1.52 μm) of Matte Tin Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel on Press-Fit Tail Area; Nickel Plating for Cage												
		CONNECTOR FOOTPRINT 0 - Standard												0
		VENT HOLES 0 - Large Vent Holes & EMI Cover 2 - Small Vent Holes & EMI Cover 4 - Rectangular Vent Holes & EMI Cover												X
		EMI GASKET OPTION 1 - Chomerics 1273 Conductive Elastomer 2 - Chomerics S6305 Conductive Elastomer												X
		PACKAGING 1 - Tray												1
		LIGHT PIPE OPTION 6 - Light Pipes (Triangular Outlet); Left Arrow Pointing Bottom Outlet & Right Arrow Pointing Top Port 7 - Without Light Pipes 8 - With Light Pipes; Left Arrow Pointing Top Port & Right Arrow Pointing Bottom Port												X
		DUST COVER OPTION 0 - Without Dust Cover D - With Dust Cover												X

ExpressPort® QSFP+ Cages

U90	SERIES DESIGNATION	U90	X	X	X	1	1	X	X	X				
X	STYLE	A - One Row Cage 0", Through the Bezel (No Light Pipe) C - One Row Cage 1", Through the Bezel (1X1 Only No Light Pipe) D - One Row Cage 0", Hybrid with Elastomeric Gasket G - One Row Cage 0", Behind the Bezel H - One Row Cage 0", Through the Bezel with Optional Light Pipe K - One Row Cage 0", Through the Bezel with No Heat Sink Opening L - One Row Cage 0", No Pins on Back Wall P - One Row Cage 0", Behind the Bezel with Low Profile Heat Sink and Clip R - One Row Cage 0", Through the Bezel with Low Profile Heat Sink T - One Row Cage 0", Through the Bezel with Low Profile Heat Sink and Clip with Optional Light Pipe W - One Row Cage 1", Through the Bezel with No Rear Pin (1X1 Only No Light Pipe)												
X	NUMBER OF PORTS IN ROW	1 - 1X1 2 - 1X2 3 - 1X3 4 - 1X4 6 - 1X6												
X	HEAT SINK OPTION	1 - No Heat Sink or Clip Shipped 2 - Fin Style(Black Anodized) Heat Sink & Clip (H = 6.5 mm) 3 - Fin Style(Black Anodized) Heat Sink & Clip (H = 4.2 mm) 4 - Fin Style(Black Anodized) Heat Sink & Clip (H = 13.5 mm) 5 - Pin Style(Nickel Plated) Heat Sink & Clip (H = 6.5 mm) 6 - Pin Style(Nickel Plated) Heat Sink & Clip (H = 4.2 mm) 7 - Pin Style(Nickel Plated) Heat Sink & Clip (H = 13.5 mm)												
		PACKAGING 1 - Tray (Shipped Unassembled for Single Port) T - Tape & Reel (1X1 Only) A - Tray Heat Sink & Clip or Light Pipe Shipped Assembled												X
		LIGHT PIPE OPTION 0 - Without Light Pipe 1 - Round 1.4mm Outlet Light Pipe 3 - Square 2.6x2.6mm Outlet Light Pipe, No EMI Gasket												X
		DUST COVER OPTION 0 - Without Dust Cover D - With Dust Cover (Shipped Loose)												X
		PLATING 1 - Nickel												1
		APPLICATION 1 - Press-Fit Pins (2.5mm Long)												1
		HEAT SINK OPTION D - Pin-Fin Style(Black Anodized) Heat Sink & Clip (H = 6.5 mm) E - Pin-Fin Style(Black Anodized) Heat Sink & Clip (H = 4.2 mm) F - Pin-Fin Style(Black Anodized) Heat Sink & Clip (H = 13.5 mm) N - Pin-Fin Style(Nickel Plated) Heat Sink & Clip (H = 6.5 mm) P - Pin-Fin Style(Nickel Plated) Heat Sink & Clip (H = 4.2 mm) R - Pin-Fin Style(Nickel Plated) Heat Sink & Clip (H = 13.5 mm)												X



Order Information:

P: 416.291.4401 | F: 416.292.0647 | E: cages@amphenol-highspeed.com

For more information consult factory or visit amphenol-highspeed.com

Product Applications; List represents common uses for the product but is not limited to these uses.

All specifications are subject to change without notice.

© 2015 Amphenol High Speed Interconnects. All rights reserved.

TechBrochure_ExpressPortQSFP+_Rev.1.17





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.