

# Amphenol ICC

# **ExpressPort® QSFP+**

Amphenol ICC's 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 16Gb/s per 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 SONET/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.



#### MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

#### **MECHANICAL PERFORMANCE**

- Durability: 250 mating cycles
- Mating Force: 40 N max.
- Contact Normal Force: 50 grams min.
- PCB Thickness Single Side (Cage): 1.44 mm (0.057in.) min.
- PCB Thickness Belly to Belly (Cage): 2.85 mm (0.093in.) min.
- Unmating Force (Cage): 30 N max.
- Insertion Force to PCB (Cage):
- 780 N for 1 port
- 1000 N for 2 Ports
- 1700 N for 4 Ports
- 2400 N for 6 Ports

#### **ELECTRICAL PERFORMANCE**

- Operating Voltage: 30 VDC per contact
- Operating Current: 0.5 A per contact
- Differential Impedance:  $100\Omega + 10\Omega$

#### **ENVIRONMENTAL**

- Operating and (Storage) Temperature: -40° to +85° C
- RoHS & Halogen-Free

#### **TOOLING INFORMATION**

- Cage Mounting: Behind Bezel, Thru Bezel, Hybrid
- EMI Options: Spring Fingers, Gasket
- Configurations:
- 1XN (N=1,2,3,4,6)
- 2XN (N=1,2,3)

#### **TARGET MARKETS/APPLICATIONS**



Network Interface Cards SAN-Storage Attached Networks

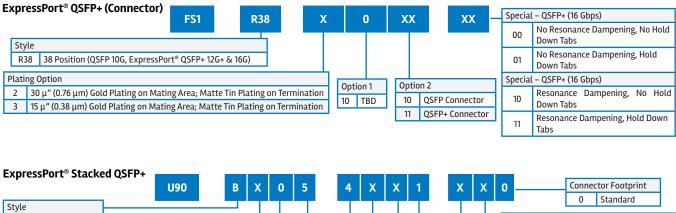
Hubs HBA Router Switch Servers

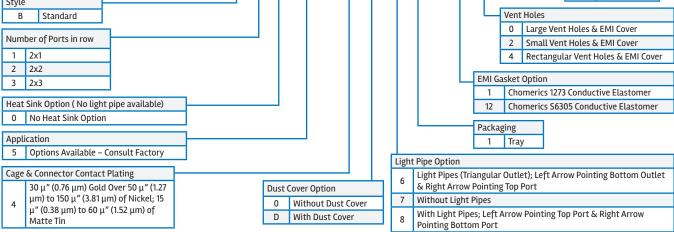
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### ExpressPort<sup>®</sup> QSFP+





Expr	ressPort® QSFP+ C	U90	x	Х	( X			1		x	х	X	Packaging			
															1 Tray (Shipped Unassembled for Single Port)	
Style	2														T Tape & Reel (1X1 Only)	
А	One Row Cage 0°, Thre	ough th	e Bezel (N	lo Light Pipe)											A Tray Heat Sink & Clip or Light Pipe Shipped	
C	One Row Cage 1°, Thro	ough th	e Bezel (1)	<1 Only No Light Pipe)											Assembled	
D	One Row Cage 0°, Hyb	ne Row Cage 0°, Hybrid with Elastomeric Gasket											<u>୍</u> ୟ	Light	Pipe Option	
G	One Row Cage 0°, Beh	e Row Cage 0°, Behind the Bezel											1	0	Without Light Pipe	
Н	One Row Cage 0°, Thre	Row Cage 0°, Through the Bezel with Optional Light Pipe											Ì	1	Round 1.4mm Outlet Light Pipe	
К	One Row Cage 0°, Thre	ne Row Cage 0°, Through the Bezel with No Heat Sink Opening											1	3	Square 2.6x2.6mm Outlet Light Pipe, No EMI Gasket	
L	One Row Cage 0°, No	Pins on Back Wall											ľ		· · · · · · · · · · · · · · · · · · ·	
Р	One Row Cage 0°, Beh and Clip	0°, Behind the Bezel with Low Profile Heat Sink												Dust 0	Cover Option Without Dust Cover	
R		ge 0°, Through the Bezel with Low Profile Heat Sink												D	With Dust Cover (Shipped Loose)	
Т	One Row Cage 0°, Thre	ne Row Cage 0°, Through the Bezel with Low Profile Heat Sink nd Clip with Optional Light Pipe								L			-	Platir	lg	
W	One Row Cage 1°, Thro Light Pipe)	ough the	e Bezel wi	th No Rear Pin (1X1 On	y No								 	1 Annli	nickel	
Number of Ports in row														1	Press-Fit Pins (2.5mm Long)	
1	1X1		Heat Sin	k Option							] _				1.055 1.01 mb (2.01 mi 201.8)	
2	1X2		1 N	o Heat Sink or Clip Ship	ped						][	Heat	Sinl	(Optio	on	
3	1X3		2 Fi	n Style(Black Anodizec	) Heat	Sinl	< & Clip	o (H =	6.5 mm	ו)		D	Pin	-Fin S	tyle(Black Anodized) Heat Sink & Clip (H = 6.5 mm)	
4	1X4		3 Fi	n Style(Black Anodized	) Heat	Sinł	< & Clip	<b>) (H</b> = -	4.2 mn	1)		Е			tyle(Black Anodized) Heat Sink & Clip (H = 4.2 mm)	
6	1X6		4 Fi	n Style(Black Anodizec	) Heat	Sinl	< & Clip	o (H = 1	13.5 mr	n)		F			tyle(Black Anodized) Heat Sink & Clip (H = 13.5 mm)	
		1	5 Pi	Pin Style(Nickel Plated) Heat Sink & Clip (H = 6.5 mm)								Ν	Pin-Fin Style(Nickel Plated) Heat Sink & Clip (H = 6.5 mm)			
			6 Pi	Pin Style(Nickel Plated) Heat Sink & Clip (H = 4.2 mm)								Р	Pin-Fin Style(Nickel Plated) Heat Sink & Clip (H = 4.2 mm)			
			7 Pi	n Style(Nickel Plated)	Heat Si	nk 8	x Clip (	H = 13	.5 mm)	)		R	Pin	-Fin S	tyle(Nickel Plated) Heat Sink & Clip (H = 13.5 mm)	

# HSIOEXPRESSPORTQSFP0118EA4

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