

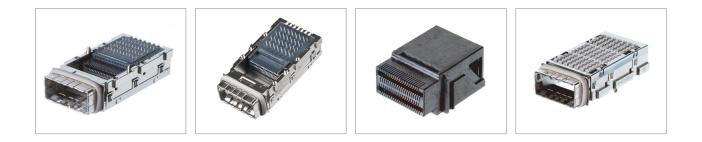
## CXP

## **Product Description**

The CXP connector comes in a one-piece Press-Fit assembly that provides a one-step placement to the board to accommodate single, ganged or stacked connector configurations in extremely high-density requirements. The CXP system has twelve channels for up to 20 Gbps, resulting in 240 Gbps of total bandwidth. This allows our CXP to go beyond the 100 Gigabit Ethernet IEEE 802.3ba and the InfiniBand CXP12x QDR standards. It also enables pluggable copper or optical cables to increase the flexibility of system-level hardware for end users. The low profile CXP optical 4.50mm round cable assemblies offer improved fiber management over traditional flat cables for connecting CXP transceivers.

Applications	Supported Standards				
Blade server	Router/Switch	Controller Cards	NIC cards	Connector Cage Combo SFF-8617	
Computing systems	Storage systems	DAS – Direct Attached Storage			
Networking equipment	Servers	SAN – Storage Attached Networks			

## **Product Specifications - CXP** CAGE CONNECTOR **Materials Specifications** Black color, Glass reinforced, Lead Free Solder **PCB** Thickness Down to 1.57 mm (0.062 in.) Housing Reflow, Process Compatible Thermo Plastic **Contacts Base Material Phosphor Bronze Contact Normal Force** 50 grams min. **Plating Press-Fit Area** Matte tin Gold **Plating Mating Area Spring Clip** Copper Alloy, Nickel plating **Operating & Storage Temperature** -40° to +85° C **Electrical Specifications** 30 VDC per contact **Operating Voltage Operating Current** 0.5 A per contact **Differential Impedance** 100 Ω +/- 10 Ω **Mechanical Specifications** 150 N max. **Unmating Force** 50 N max. **Mating Force** Durability 250 mating cycles **Insertion Force** 150 N max. to PCB Options Packaging Tray **EMI Options, Heat Sink and Clip** Available Configurations 1X1 **Environmental Specifications** Yes RoHS **Halogen Free** Yes UL 94V-0 **Flammability Rating**





## Ordering Information

CXP	Cage/Connector Combo	U91	Х	Х	Х	1	Х	Х	Х	3 X	
U91	SERIES DESIGNATION									MOUNTING SCREWS	Х
Х	STYLE									0 - No Screws	
	A - One Row 0°, Standard Footprint									1 - With Mounting Screws (Standard Length of M2 X 0.4, 6mm long)	
	<b>D</b> - One Row 0°, Enhanced Footprint									CONTACT PLATING	3
1	NUMBER OF PORTS IN A ROW 1 - 1X1									<b>3</b> - Mating Area Plating 30 μ" (0.76 μm) Gold Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel;Press-Fit Tail Area Plating 15 μ" (0.38 μm) to1.52 μm of Matte Tin Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel	
Х	HEAT SINK OPTION				·			L	DAG		X
	1 - No Heat Sink or Clip Shipped 2 - Square Pin (Black Oxide) Heat Sink, & Clip							ACKAGING - Tray			
	5 - Round Pin (Black Oxide) Heat Sink, & Clip								A - 11	ay; Heat Sink & Clip Shipped Assembled	
	A - Square Pin (Nickel Plated) Heat Sink, & Clip				LIC	LIGH	IT PI	E OPTION	Х		
	<b>D</b> - Round Pin (Nickel Plated) Heat Sink, & Clip						<b>X</b> - Opt	)ptior	s Available Consult Factory		
	G - Square Pin (Chromate Passivation) Heat Sink, & Clip					DUS	т со	VER	R OPTION		
	K - Round Pin (Chromate Passivation) Heat Sink, & Clip						<b>0</b> - W	'itho	ut Du	st Cover	
Х	KEYING						<b>D</b> - W	/ith [	Dust (	over (Shipped Loose)	
	0 - No Key 1 - Key #1 (Left) InfiniBand™					CAG	GE PL/		NG		1
					Nickel						
	2 - Key #2 (Right) Ethernet										



Order Information: P: 416.291.4401 | F: 416.292.0647 | E: cages@amphenol-highspeed.com For more information consult factory or visit <u>amphenol-highspeed.com</u>

Product Applications; List represents common uses for the product but is not limited to these uses. All specifications are subject to change without notice. © 2016 Amphenol High Speed Interconnects. All rights reserved. TechBrochure\_CXP\_Rev.1.17

