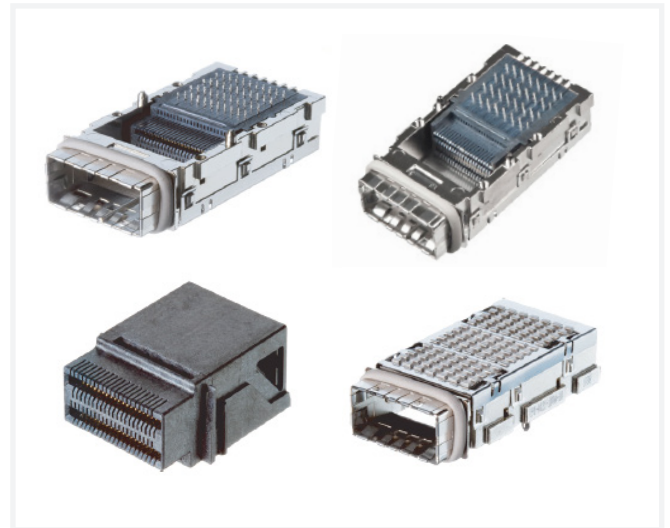# CXP

Amphenol ICC's 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 12.5Gb/s, resulting in 150Gb/s 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.

## TARGET MARKETS

# TECHNICAL INFORMATION

## MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic

- Contacts Base Material: Phosphor Bronze

- Plating Press-Fit Area: Matte tin

- Plating Mating Area: Gold

- Spring Clip: Copper Alloy, Nickel plating

## MECHANICAL PERFORMANCE

- Durability: 250 mating cycles

- Mating Force: 150 N max.

- Contact Normal Force: 50 grams min.

- PCB Thickness (Cage): Down to 1.57 mm (0.062 in.)

- Unmating Force(Cage): 50 N max.

- Insertion Force to PCB (Cage): 150 N max.

## ELECTRICAL PERFORMANCE

- Operating Voltage: 30 VDC per contact

- Operating Current: 0.5 A per contact

- Differential Impendance: 100$\Omega$ +/- 10$\Omega$

## ENVIRONMENTAL

- Operating and (Storage) Temperature: -40°C to +85°C

- RoHS & Halogen-Free

## TOOLING INFORMATION

- Configurations: 1X1
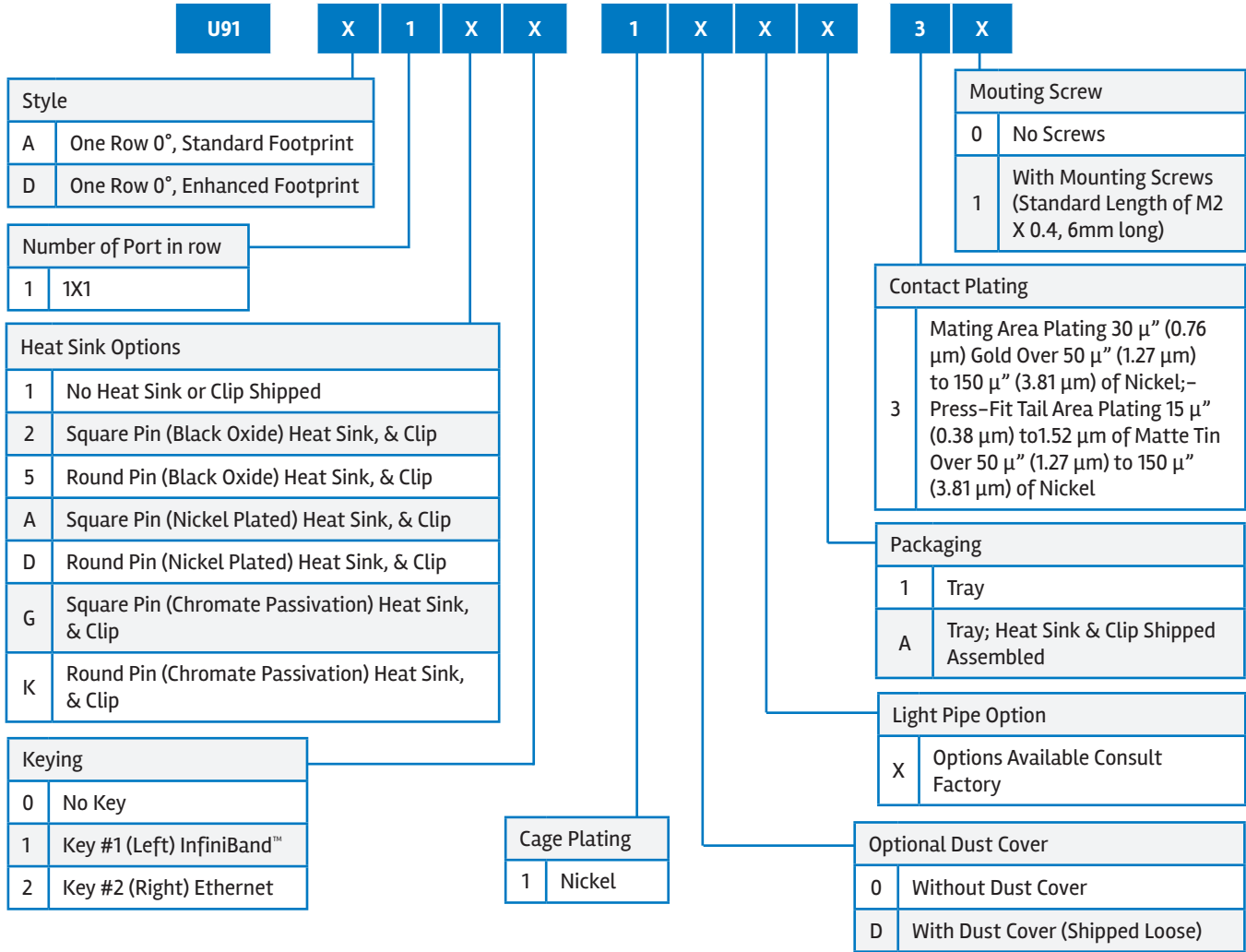
## TARGET MARKETS/APPLICATIONS

Controller Cards
Networking Equipment
NIC Cards
SAN – Storage Attached Networks
Blade Server
Computing Systems
DAS – Direct Attached Storage
Router
Server
Switch
Storage Systems

# ▶ CXP

## PART NUMBER SELECTOR

**CXP Cage/Connector Combo**

| U91 | X | 1 | X | X | 1 | X | X | X | 3 | X |

**Style**

| A | One Row 0°, Standard Footprint |
|---|---|
| D | One Row 0°, Enhanced Footprint |

**Number of Port in row**

| 1 | 1X1 |
|---|---|

**Heat Sink Options**

| 1 | No Heat Sink or Clip Shipped |
|---|---|
| 2 | Square Pin (Black Oxide) Heat Sink, & Clip |
| 5 | Round Pin (Black Oxide) Heat Sink, & Clip |
| A | Square Pin (Nickel Plated) Heat Sink, & Clip |
| D | Round Pin (Nickel Plated) Heat Sink, & Clip |
| G | Square Pin (Chromate Passivation) Heat Sink, & Clip |
| K | Round Pin (Chromate Passivation) Heat Sink, & Clip |

**Keying**

| 0 | No Key |
|---|---|
| 1 | Key #1 (Left) InfiniBand™ |
| 2 | Key #2 (Right) Ethernet |

**Cage Plating**

| 1 | Nickel |
|---|---|

**Mouting Screw**

| 0 | No Screws |
|---|---|
| 1 | With Mounting Screws (Standard Length of M2 X 0.4, 6mm long) |

**Contact Plating**

| 3 | 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 |
|---|---|

**Packaging**

| 1 | Tray |
|---|---|
| A | Tray; Heat Sink & Clip Shipped Assembled |

**Light Pipe Option**

| X | Options Available Consult Factory |
|---|---|

**Optional Dust Cover**

| 0 | Without Dust Cover |
|---|---|
| D | With Dust Cover (Shipped Loose) |

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