

The background features a dark blue and black abstract design with glowing blue lines and a world map silhouette. The Molex logo is prominently displayed in red.

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one company › a world of innovation

Molex Connector Proposals for SAS 2.x

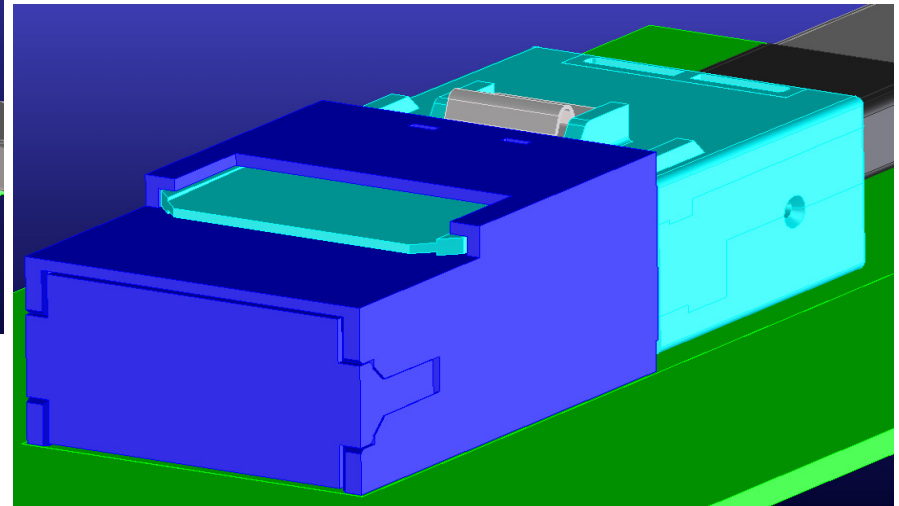
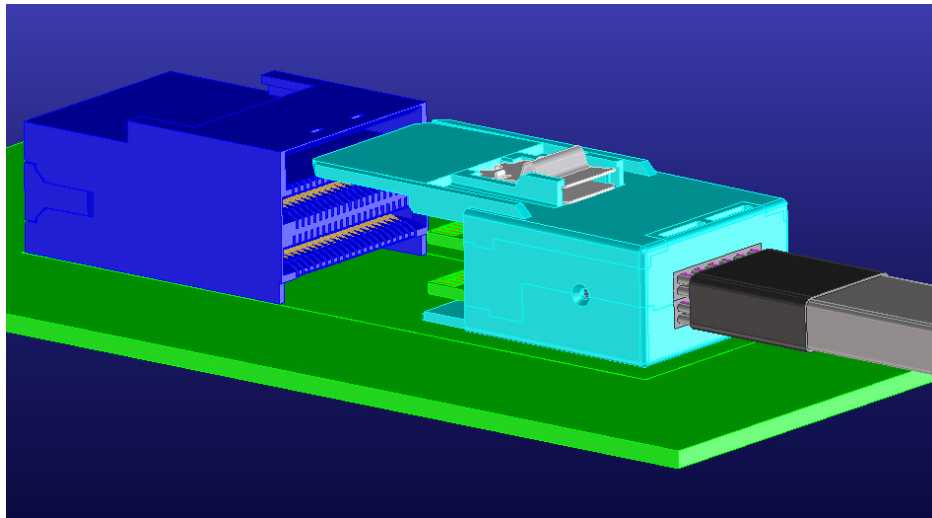
January 14, 2008 STA Meeting

Internal iPass+



New internal cable-to-board interconnect

- 0.8mm (.031") unshielded system
- Performance based on proven technology (6Gb/s now / 12Gb/s later)
- 84 Circuit
 - Provides 24 differential pairs in a very compact size
 - Provides 12 additional circuits for power and control signals

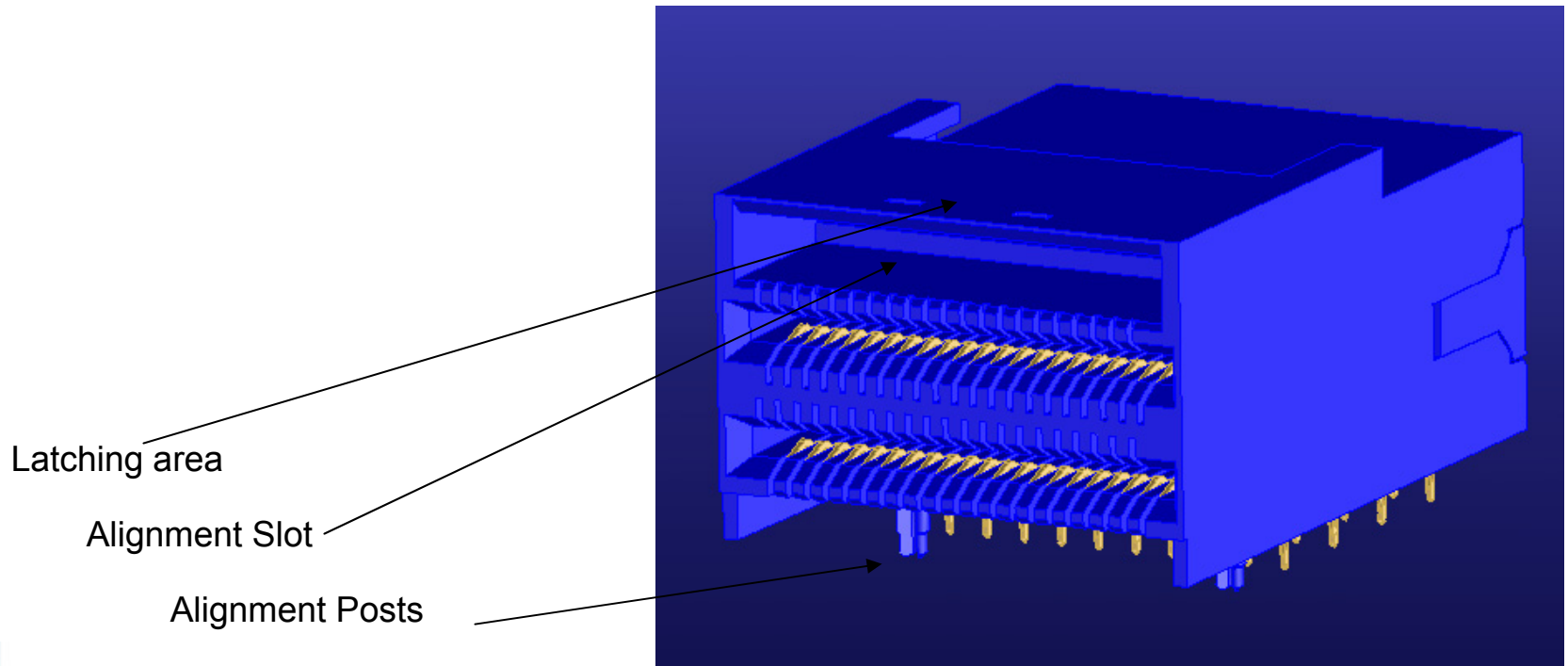


Internal iPass+



Host Board Receptacle

- High temp thermoplastic housing withstands lead free processing
- Compliant pin technology enables flat rock assembly to host board
- Two posts provide alignment for placement on the board
- Slot provides guidance & self-alignment of plug cable to receptacle
- Accepts dual paddle card cable
- Positive latching feature integral to housing (no hood or shell required)

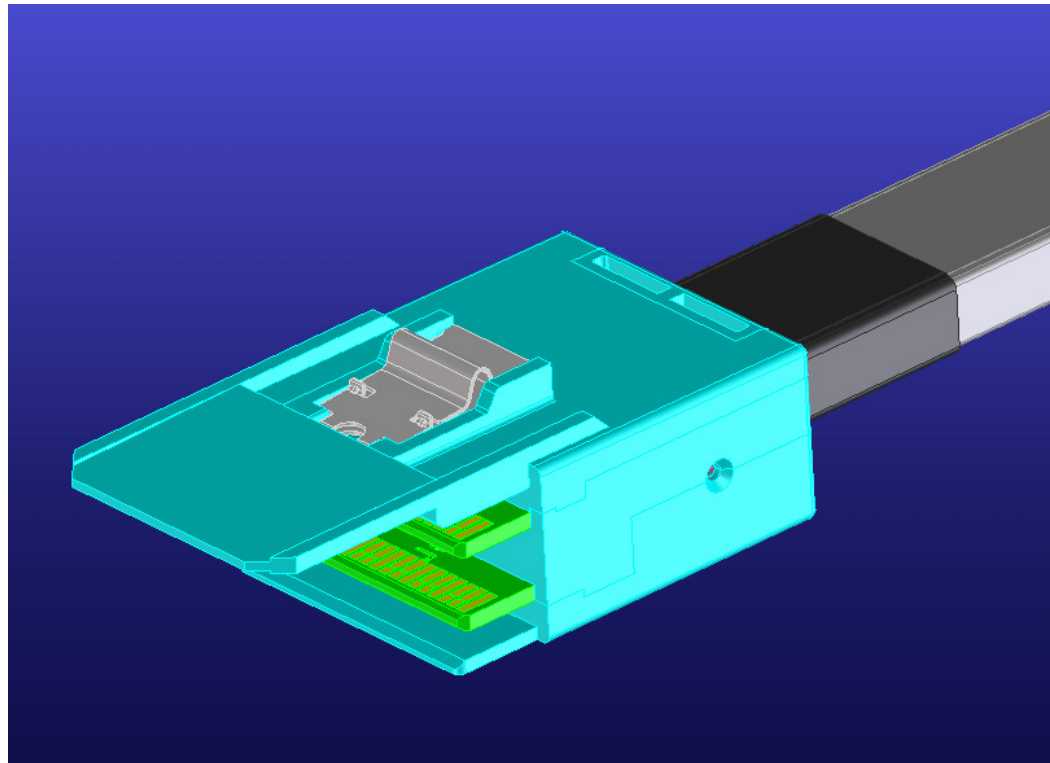


Internal iPass+



Plug & Cable Assembly

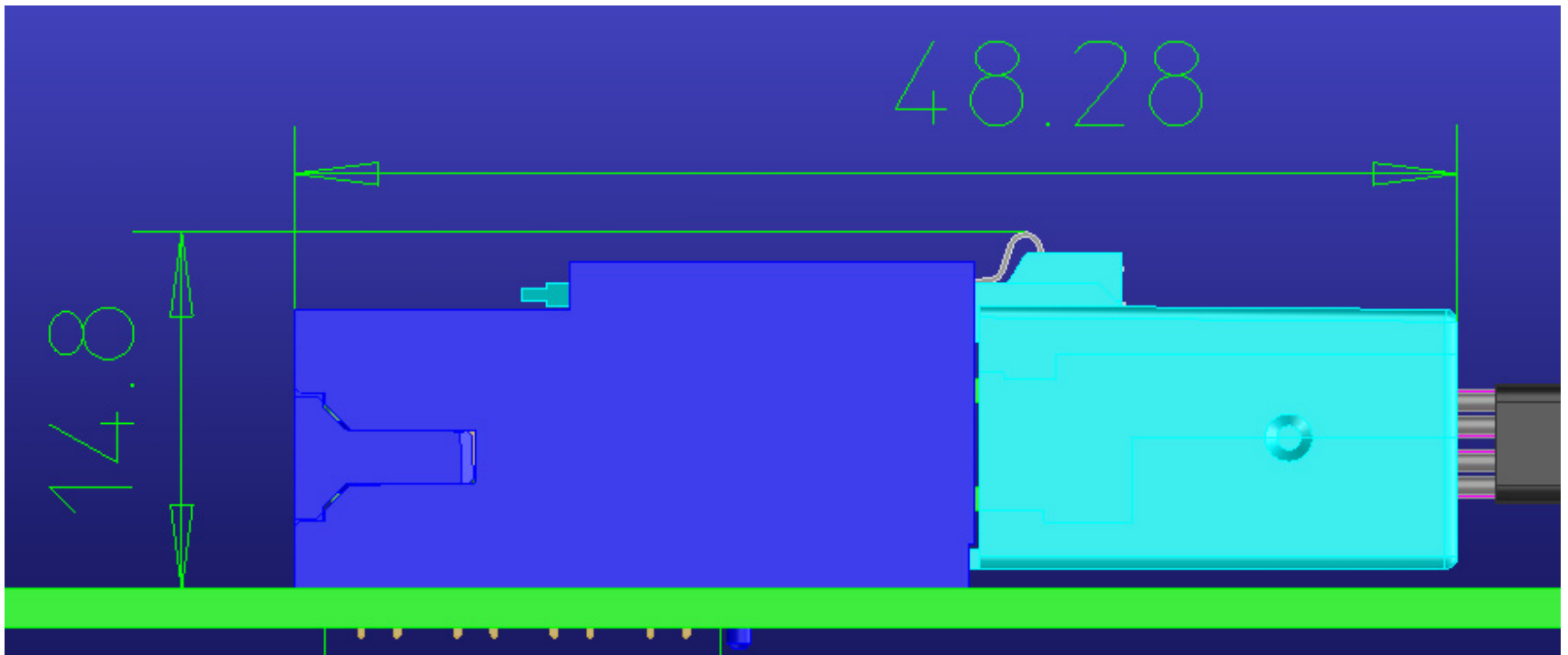
- Identical latching feature used in SFF-8087 for SAS & SATA
- Over-molded design provides cost effective cable assembly solution
- Molded-in guidance feature aligns cable plug to mating host receptacle
- Dual paddle card design employed to increase density



Internal iPass+



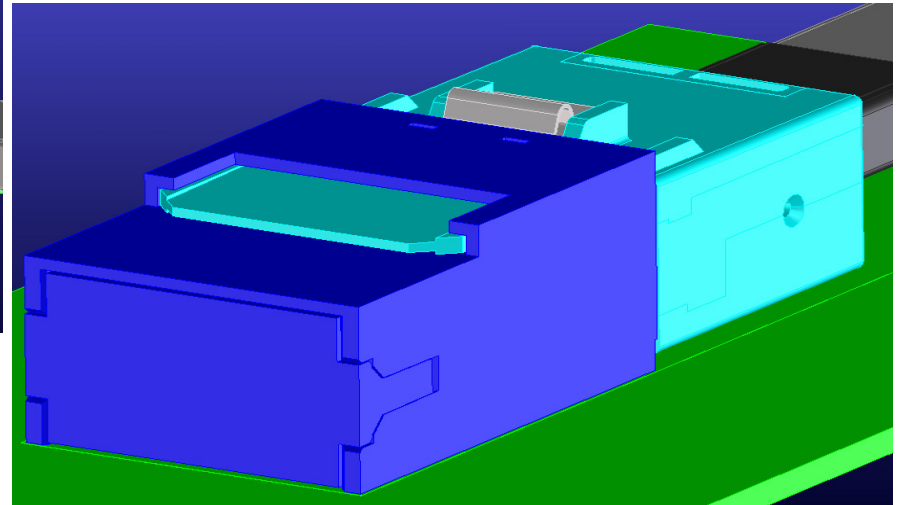
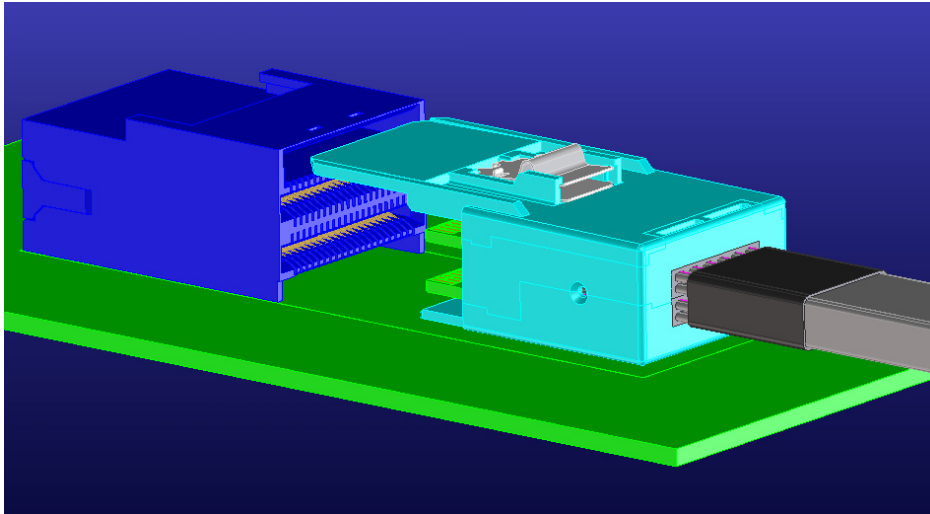
- Fits within the maximum component height for a PCIe card



Internal iPass+



- The trend in the industry is to Low Profile PCIe cards
 - This proposal triples the density for internal SAS/SATA 4x ports
 - (2) SFF-8087 SAS 4i fit on a LP card – (2) 4x ports
 - (2) SFF-xxxx Proposed SAS 12i fit on a LP card – (6) 4x ports
 - 12x to 12x; 12x to (3) 4x; 12x to (12) HDDs; (also 8x to ...)- Provides the same latch and look & feel as the current plugs

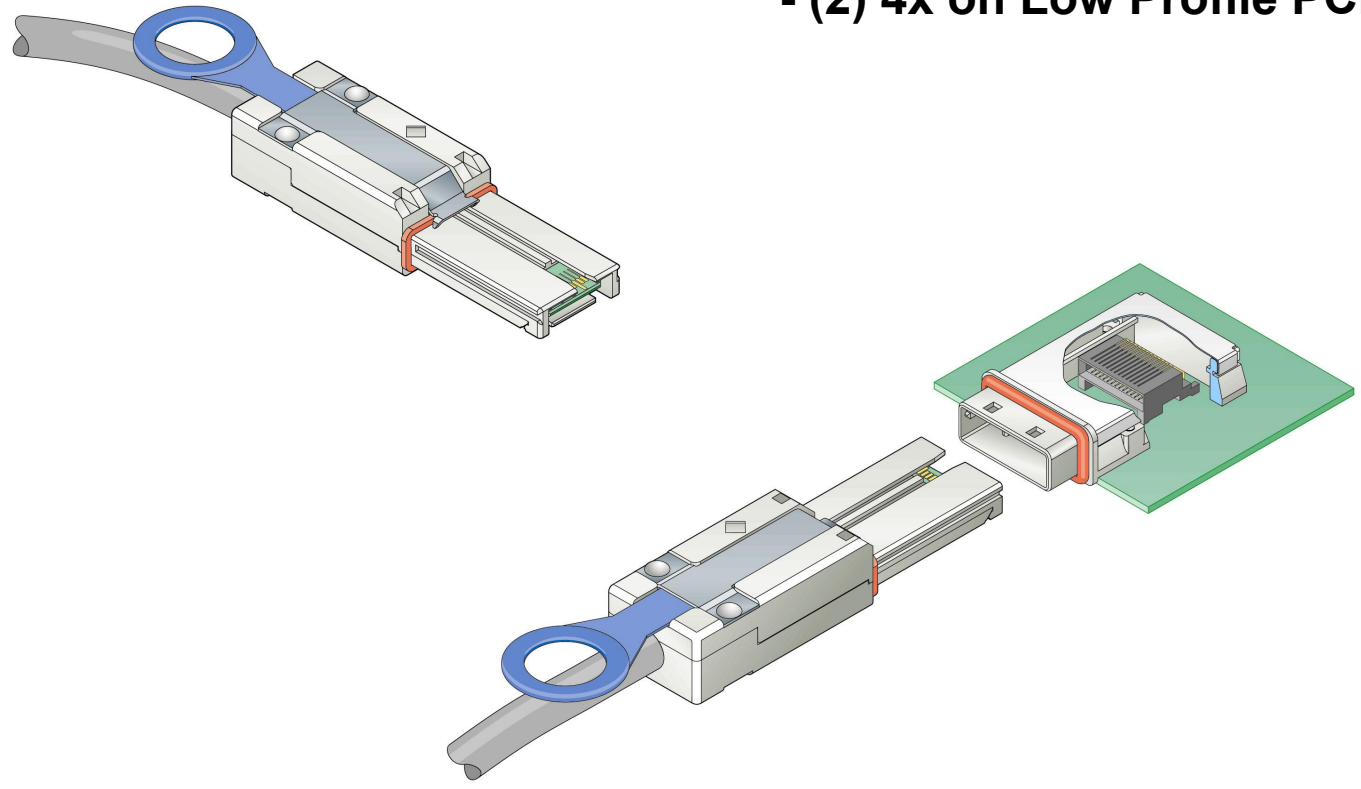




The Current SAS External I/O

SFF-8088 External mini-SAS 4x

- (4) 4x on Full High PCIe Card
- (2) 4x on Low Profile PCIe Card



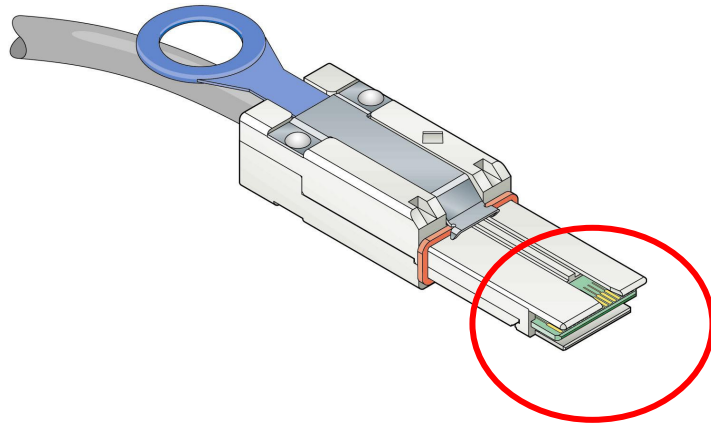
The Proposed SAS External I/O



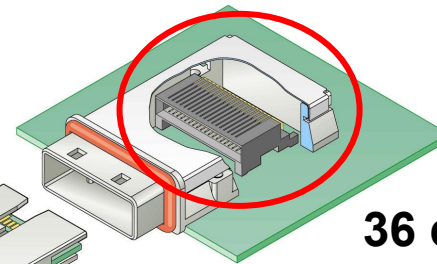
SFF-xxxx External mini-SAS 4x^{sb}

- (4) 4x on Full High PCIe Card
- (2) 4x on Low Profile PCIe Card

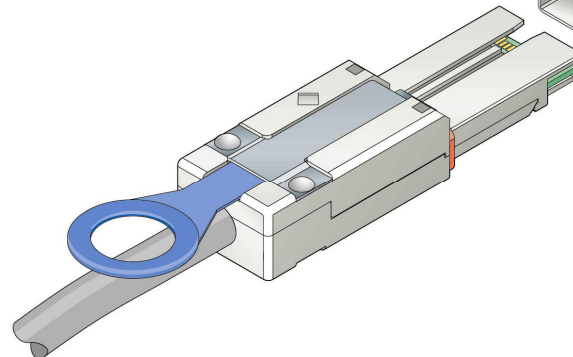
No Change in Port Density



Modified Plug



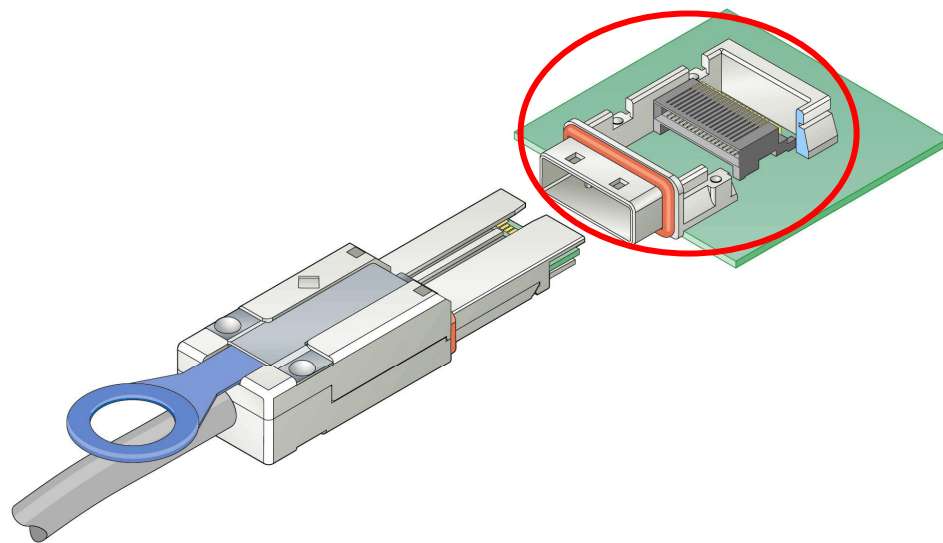
36 ckt Connector



Proposal Highlights – Host Board Connector



- Host connector was 26 ckt; proposed is 36 ckt
 - Same size as the current internal mini-SAS 4i connector
 - Same family – connector already qualified
- Guide revised to remove internal side rails
 - Same physical exterior/density
- EMI solution unchanged
- Bezel opening unchanged



Proposal Highlights – Cable Plug Connector



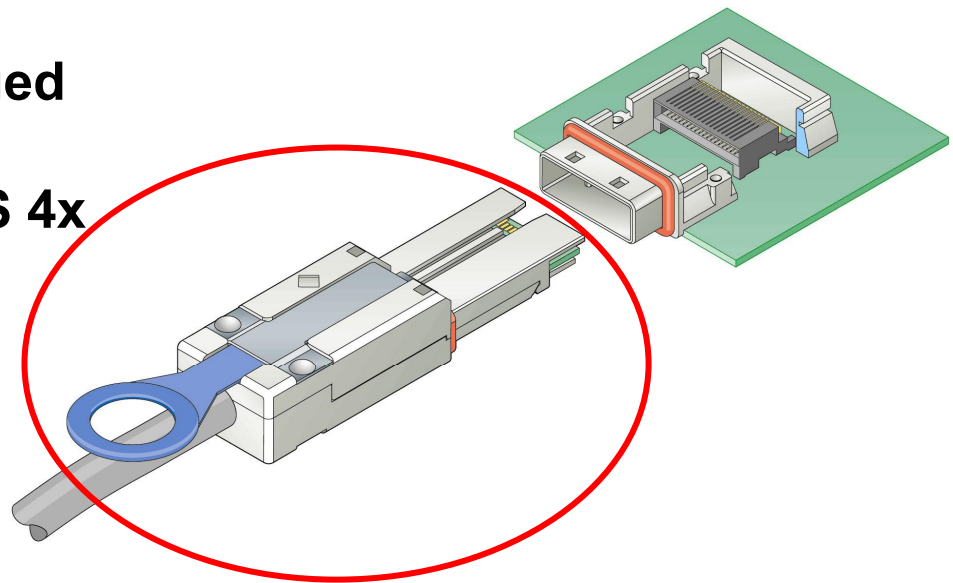
- Paddle card was 26 ckt; proposed is 36 ckt
- Same size as the current internal mini-SAS 4i connector
- Same family – connector already qualified

- Guide revised to remove external side rails
- Same physical exterior/density

- EMI solution unchanged

- Latch and Pull Tab unchanged

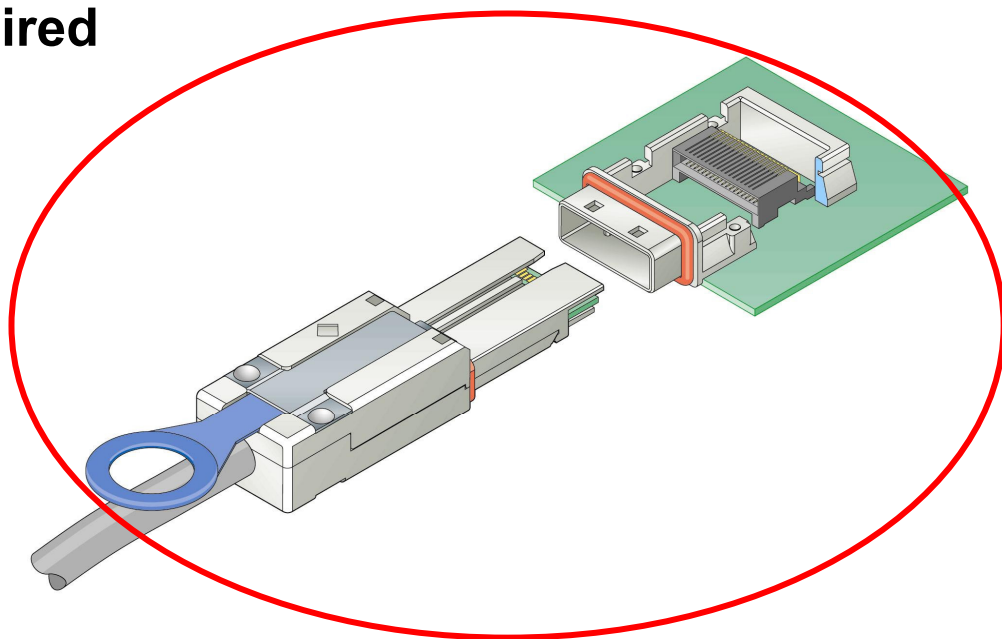
Same look & feel as mini-SAS 4x



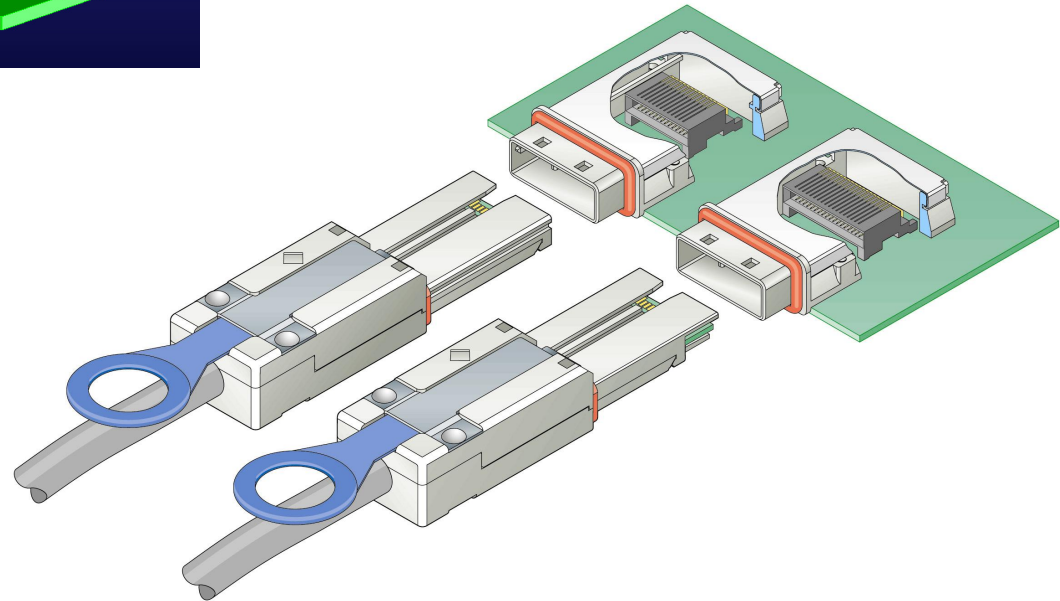
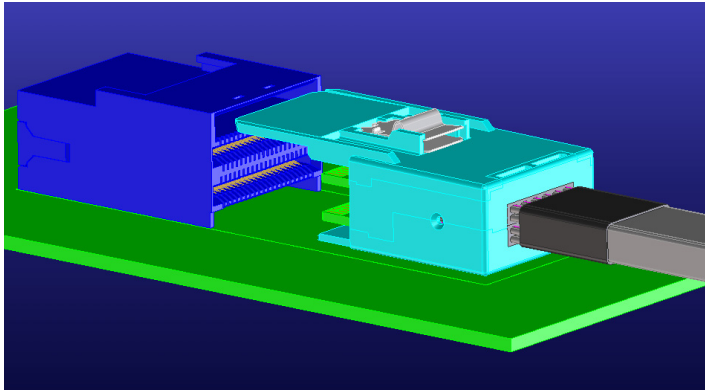
Proposal Highlights



- Intermateability
 - Not intermateable either direction
 - SFF-8088 plug will not mate with new Proposal Host connector
 - New Proposal plug will not mate to SFF-8088 Host connector
 - Not different from SFF-8088 & SFF-8470
- New Key(s)/Keyways required



Thank You for your consideration



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