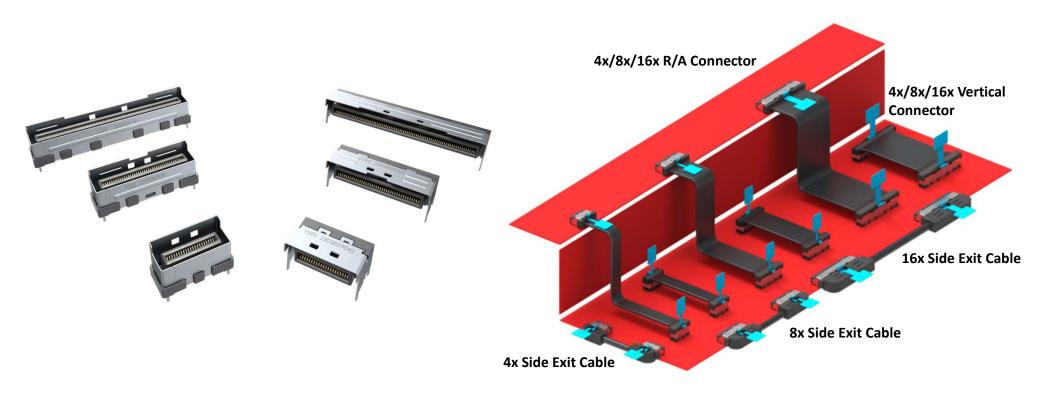


New Project Proposal: Document Number Needed

- To provide an internal cable and connector form factor to enable next generation higher speed capabilities
- Features include superior SI performance with advanced mechanical structure, scalable on supporting various configs to fulfill system design needs
- Editor: Egide Murisa [Molex]
- Supporters:
 - 1. Molex
 - 2. Juniper
 - 3. SuperMicro
 - 4. Cisco



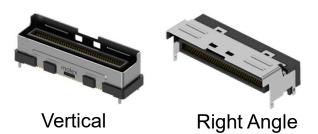
Next Generation High Speed Product Family



Support: Silicon to Silicon, Silicon to IO, Silicon to backplane, Silicon to Raiser, Main Board to OCP-NIC, Main Board to Storage/NVMe.



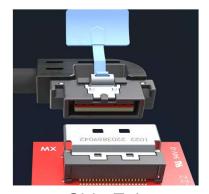
General Spec scope



Target Standard	PCIe 6.0 and Beyond
Data Rates	64 GT/s and Beyond
Mating Cycles	250
Fix/ Lock	Latch Fixed
Wire Gauge	28~32 AWG
Wire Type	Discrete and Ribbon Twinax Cable
Pitch Width	0.6mm
Impedance	85ohm
PCIe Channel	X4(42P), X8(80P), X16(130P), X20(160P)
Cable Plug Type	Straight; Right Angle Down; Side Exit
Connector Type	Vertical and Right Angle
Connector Mounting	SMT Soldering



Vertical Exit

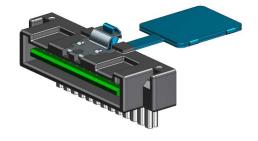


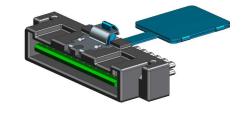
Side Exit



Mechanical Features

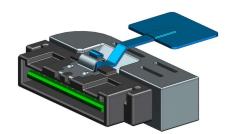
- Paddle Card/Gold Fingers Protection by Full Shrouded Cable Plug Housing
- Anti-Slant
- Anti-Reverse
- Easy Installing with Guiding/Stopping Features









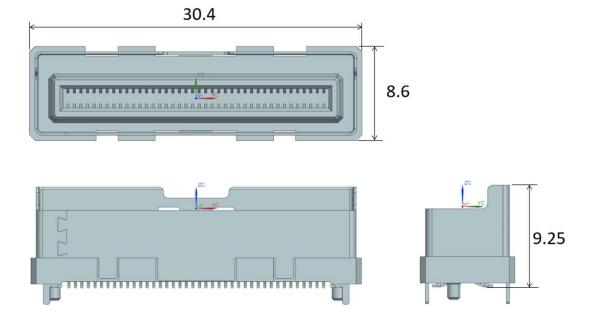




Board Connector:

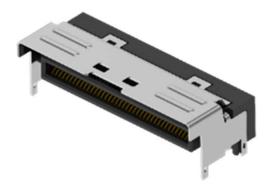


Vertical Type 80pins

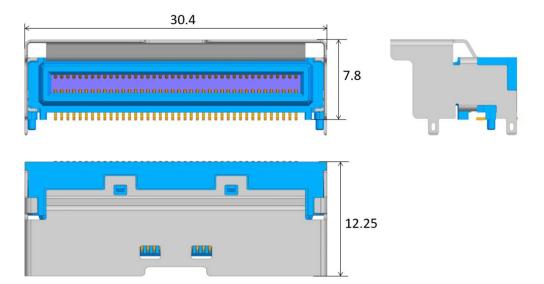




Board Connector:

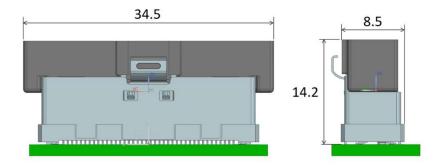


Right Angel Type 80pins

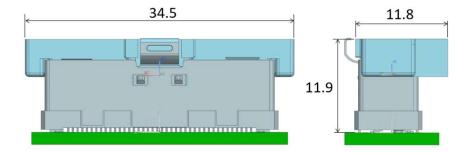




Mating Dimensions:



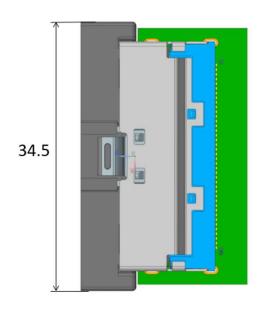
Vertical Exit 80pins

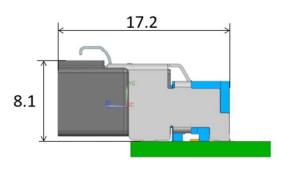


Right Angle Exit 80pins



Mating Dimensions:

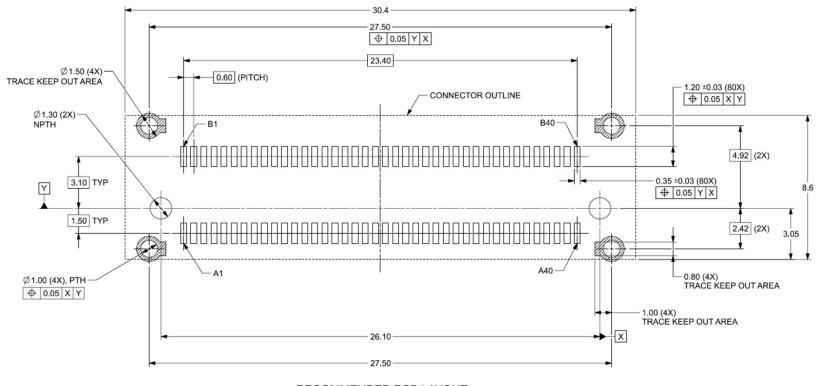




Straight Exit with RA Conn. 80pins



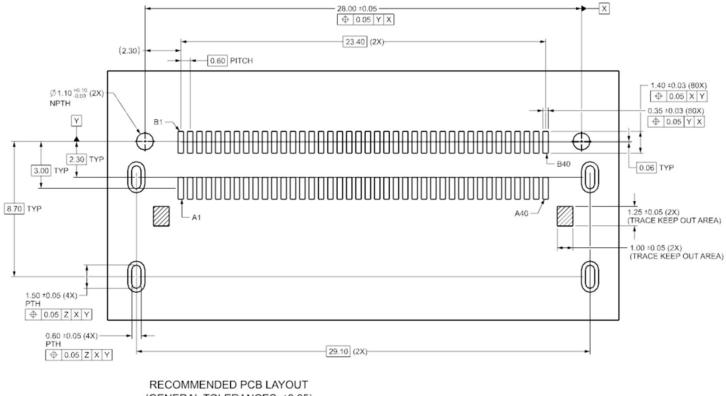
Footprint (Vertical board connector 80pins)



RECOMMENDED PCB LAYOUT (GENERAL TOLERANCES: ±0.05)



Footprint (RA board connector 80pins)



(GENERAL TOLERANCES: ±0.05)



New Project Proposal: Document Number Needed

IP Declaration:

 NOTE: The document will undergo an IP disclosure period prior to publication per the SNIA SFF Process Guide

