



112 Gbps PAM4, LOW-PROFILE HIGH-DENSITY CABLE SYSTEM



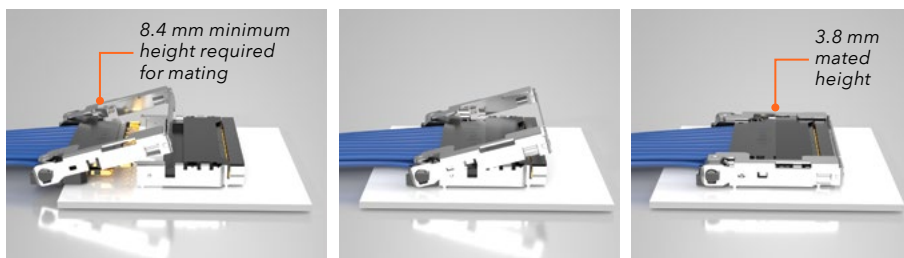
NRZ	PAM4
56 Gbps	112 Gbps

FEATURES & BENEFITS

- Ultra-low profile interconnect adjacent to the IC package
- Up to 16 pairs in an incredibly low 3.8 mm profile
- This extremely low profile allows Si-Fly™ connectors to reside under heat sinks or other cooling hardware
- 112 Gbps PAM4 per lane
- Extreme channel performance enabling 25.6 TB aggregate with a path to 51.2 TB
- Roadmap: Co-packaged interconnect option eludes the BGA and routes signals from the silicon package through a long-reach cable, supporting 5x the signal reach of traditional PCB solutions



Roadmap:
Co-packaged interconnect configuration for advanced 112G+ data rate requirements



In development: Rugged latching configuration provides a secure connection directly adjacent to the IC package for increased signal integrity performance

KEY SPECIFICATIONS

CABLE	SIGNAL ROUTING	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING
34 AWG ultra low skew twinax	92 Ω & 100 Ω	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni

0.6 mm CO-PACKAGED CABLE & INTERCONNECT

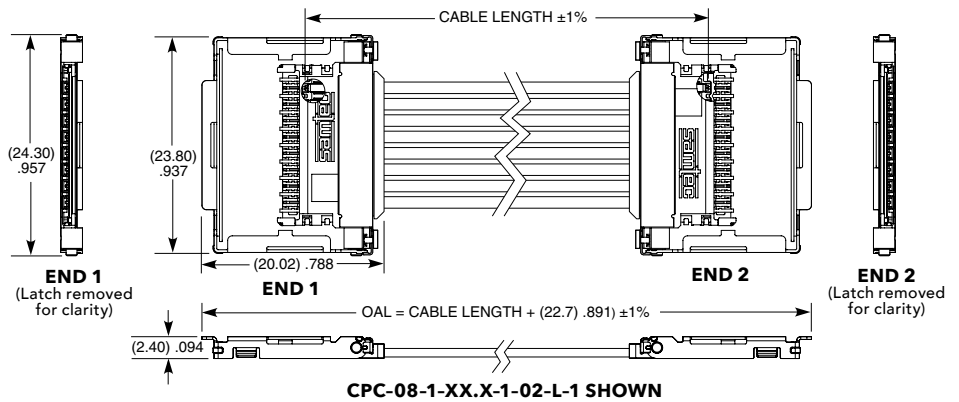
CPC	NO. OF PAIRS	CABLE STYLE	CABLE LENGTH	ROW	END 2	L	WIRING OPTION
	-08, -16	-1 = 92 Ω 34 AWG ultra low skew twinax cable -2 = 100 Ω 34 AWG ultra low skew twinax cable	-"XX.X" = Wire Length in Inches 06.0" (152.4 mm) minimum	-1 = 1 Row (-08 pairs only) -2 = 2 Row (-16 Pairs only)	-02 = CPC		Specify WIRING OPTION from chart

WIRING OPTION	ROW	CONFIGURATION
-1	Single	Pin A1 to A25
	Double	Pin A1 to A25 Pin B1 to B25
-2	Single	Pin A1 to A1
	Double	Pin A1 to B1 Pin B1 to A1

CPC
Board Mates:
CPI



PRELIMINARY

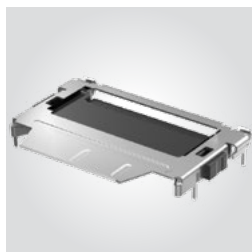


Note:
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

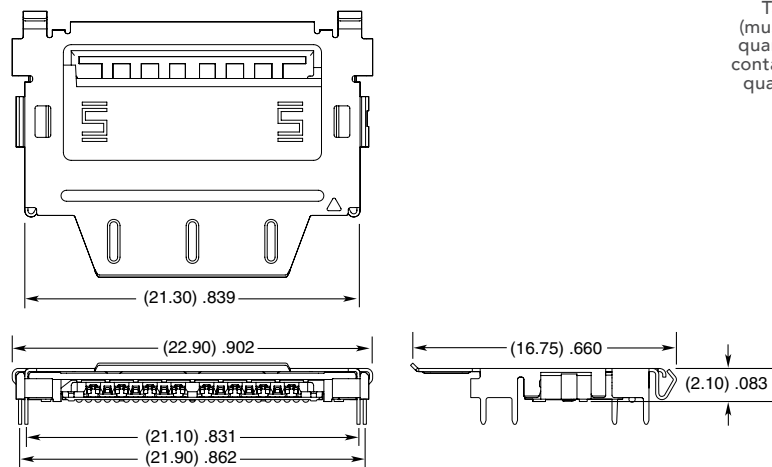
View complete specifications at: samtec.com?CPC

CPI	NO. OF PAIRS	LEAD STYLE	ROW	PLATING OPTION	RA	SOLDER TYPE	L	"X"R
	-08, -16	-01 = Surface Mount	-1 = 1 Row, 8 Pairs -2 = 2 Row, 16 Pairs	-S = 30 μ" (0.76 μm) Gold on contact area, Tin on tail		-2 = Lead-Free Solder Ball		-TR = Tape & Reel -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

CPI
Cable Mates:
CPC



PRELIMINARY



Note:
Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: samtec.com?CPI