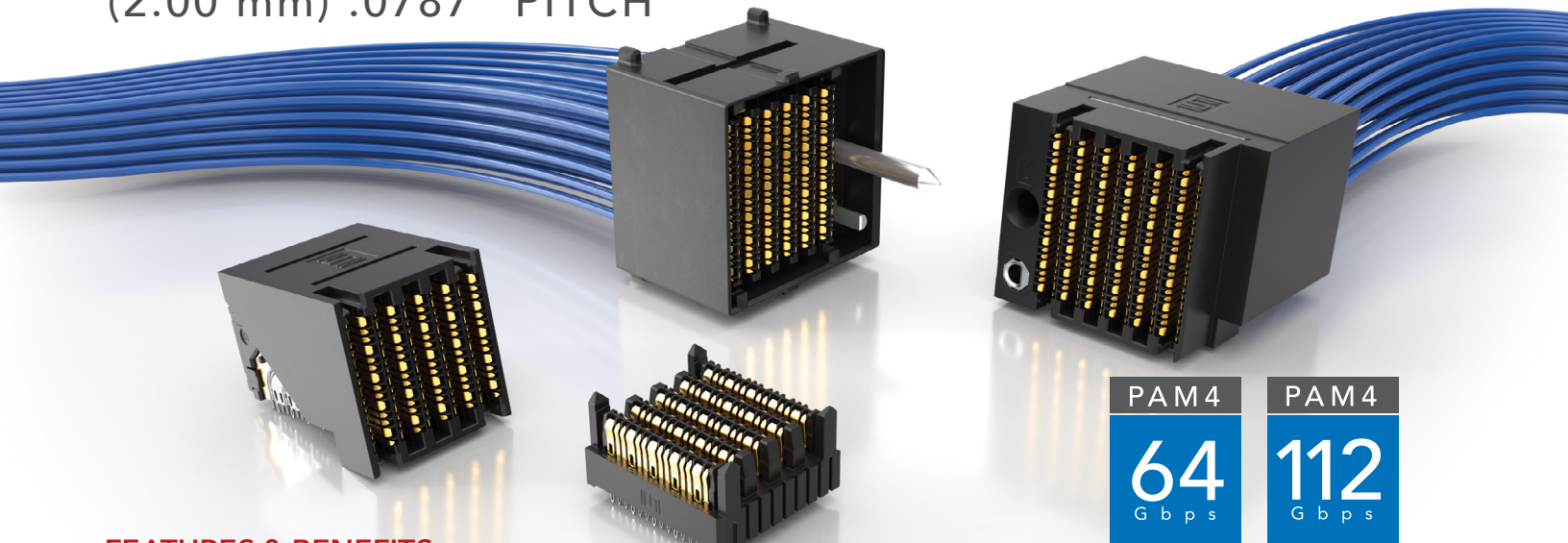


ExaMAX[®]

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



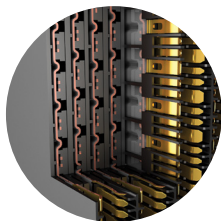
FEATURES & BENEFITS

ExaMAX[®] High-Speed Backplane System

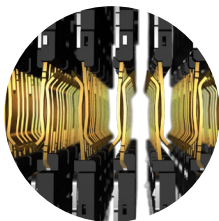
- Meets a variety of industry specifications
- Exceeds OIF CEI-28G-LR specification for 28 Gbps standards
- 24 - 72 pair designs (4 and 6 pairs; 6, 8, 10 and 12 columns)
- Wafer design includes one sideband signal per column
- Press-fit tails provide a reliable electrical connection
- PCIe[®] 6.0/CXL[®] 3.2 capable

ExaMAX[®] High-Speed Backplane Cable Assemblies

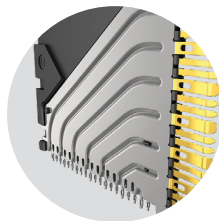
- 30 & 34 AWG Eye Speed[®] Ultra Low Skew Twinax Cable offers improved signal integrity, increased flexibility and routability
- Highly customizable with modular flexibility
- Reduce costs due to lower layer counts
- PCIe[®] 6.0/CXL[®] 3.2 capable
- Eye Speed[®] Thinax[™] ultra performance twinax cable version in development



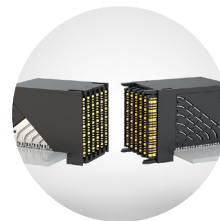
Staggered
Differential
Pair Design



Two Reliable Points
of Contact with
a 2.4 mm Wipe



Shielded
Wafer Design
Reduces Crosstalk



Traditional, Coplanar
and Direct Mate
Orthogonal

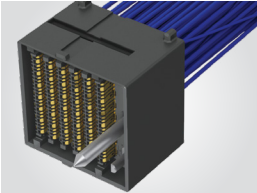
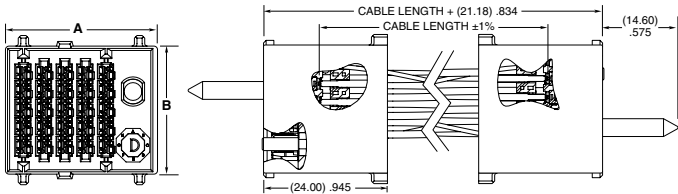


In Development:
8 Pairs for Greater
Design Flexibility

KEY SPECIFICATIONS

SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
EBTM/EBTF/EBDM	Liquid Crystal Polymer	Copper Alloy	Sn or Au over 50 μ" (1.27 μm) Ni	-55 °C to +105 °C	4 A per pin	150 VAC/212 VDC	Yes
EPTT/EPTS	High Temperature Thermoplastic	Copper Alloy	Sn or Au over 50 μ" (1.27 μm) Ni	-55 °C to +105 °C	14.1 A per pin	150 VAC/212 VDC	Yes
EBCM/EBCF	Liquid Crystal Polymer	Copper Alloy	Au over 50 μ" (1.27 μm) Ni	-40 °C to +105 °C	3.6 A per pin	125 VAC/177 VDC	N/A

PCI-SIG[®], PCI Express[®] and the PCIe[®] design marks are registered trademarks and/or service marks of PCI-SIG.

EBCM	GAUGE/ SIG. MAP	PAIRS PER COLUMN	COLUMNS	END 1 PIN	END 1 GUIDE	END 1 KEY	CABLE LENGTH	END 2 PIN	END 2	END 2 KEY																							
Cable Header	-1 = 34 AWG/Tx to Rx Sig. Map -2 = 30 AWG/Tx to Rx Sig. Map -3 = 34 AWG/1:1 Sig. Map -4 = 30 AWG/1:1 Sig. Map	-4 = 4 Pairs -6 = 6 Pairs	-04, -08, -10, -12, -14, -16	-1 = Standard	-L = Left Guidance -R = Right Guidance	-A thru -H = Position of Flat on Key (See Table) -N = No Key	-"XX" = Length in Inches 4 Pairs: 06" (152.4 mm) minimum 6 Pairs: 08" (203.2 mm) minimum	-1 = Standard	-L = Male, Left Guidance -R = Male, Right Guidance -FL = Female, Right-angle Left Guidance (-3 & -4 Signal Map only) -FR = Female, Right-angle Right Guidance (-3 & -4 Signal Map only) -FV = Female, Vertical (-3 & -4 Signal Map only)	(Leave Blank for -FV End 2) -A thru -H = Position of Flat on Key (See Table) -N = No Key																							
			<table><tr><th>NO. OF COLUMNS</th><th>A</th></tr><tr><td>-04</td><td>(17.45) .687</td></tr><tr><td>-06</td><td>(21.45) .845</td></tr><tr><td>-08</td><td>(25.45) 1.002</td></tr><tr><td>-10</td><td>(29.45) 1.159</td></tr><tr><td>-12</td><td>(33.45) 1.317</td></tr><tr><td>-14</td><td>(37.45) 1.474</td></tr><tr><td>-16</td><td>(41.45) 1.632</td></tr></table>		NO. OF COLUMNS	A	-04	(17.45) .687	-06	(21.45) .845	-08	(25.45) 1.002	-10	(29.45) 1.159	-12	(33.45) 1.317	-14	(37.45) 1.474	-16	(41.45) 1.632	<table><tr><th>PAIRS PER COLUMN</th><th>B</th></tr><tr><td>-4</td><td>(24.80) .976</td></tr><tr><td>-6</td><td>(32.00) 1.260</td></tr></table>		PAIRS PER COLUMN	B	-4	(24.80) .976	-6	(32.00) 1.260					
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View complete specifications at: samtec.com?EBCM																																	

EBCF	GAUGE/ SIG. MAP	PAIRS / COLUMN	COLUMNS	END 1	END 1 PIN	CABLE LENGTH	END 2 OPTION	END 2 PIN	END 2 GUIDE	END 2 KEY																																																																		
Cable Socket	-1 = 34 AWG/ Tx to Rx Sig. Map -2 = 30 AWG/ Tx to Rx Sig. Map -3 = 34 AWG/1:1 Sig. Map -4 = 30 AWG/1:1 Sig. Map	-4 = 4 Pairs -6 = 6 Pairs	-04, -08, -10, -12, -14, -16	-V = Vertical Latch	-1 = Standard	-"XX" = Length in Inches 4 Pairs: 06" (152.4 mm) minimum 6 Pairs: 08" (203.2 mm) minimum	-V = Vertical Latch -R = Right- Angle	-1 = Standard	(-R End Only) -L = Left Guidance -R = Right Guidance	(Leave Blank for no Key; -R End Only) -A thru -H = Position of Flat on Key (See Table)																																																																		
			<table><tr><th>NO. OF COLUMNS</th><th>A</th><th>C</th><th>E</th></tr><tr><td>-04</td><td>(10.60) .417</td><td>(14.85) .585</td><td>(19.15) .754</td></tr><tr><td>-06</td><td>(14.60) .575</td><td>(18.85) .742</td><td>(23.15) .911</td></tr><tr><td>-08</td><td>(18.60) .732</td><td>(22.85) .900</td><td>(27.15) 1.069</td></tr><tr><td>-10</td><td>(22.60) .890</td><td>(26.85) 1.057</td><td>(31.15) 1.226</td></tr><tr><td>-12</td><td>(26.60) 1.047</td><td>(30.85) 1.530</td><td>(35.15) 1.699</td></tr><tr><td>-14</td><td>(30.60) 1.205</td><td>(34.85) 1.372</td><td>(39.15) 1.541</td></tr><tr><td>-16</td><td>(34.60) 1.362</td><td>(38.85) 1.530</td><td>(43.15) 1.699</td></tr></table>	NO. OF COLUMNS	A	C	E	-04	(10.60) .417	(14.85) .585	(19.15) .754	-06	(14.60) .575	(18.85) .742	(23.15) .911	-08	(18.60) .732	(22.85) .900	(27.15) 1.069	-10	(22.60) .890	(26.85) 1.057	(31.15) 1.226	-12	(26.60) 1.047	(30.85) 1.530	(35.15) 1.699	-14	(30.60) 1.205	(34.85) 1.372	(39.15) 1.541	-16	(34.60) 1.362	(38.85) 1.530	(43.15) 1.699	<table><tr><th>PAIRS PER COLUMN</th><th>B</th><th>D</th></tr><tr><td>-4</td><td>(23.00) .906</td><td>(22.70) .894</td></tr><tr><td>-6</td><td>(30.20) 1.189</td><td>(29.90) 1.177</td></tr></table>	PAIRS PER COLUMN	B	D	-4	(23.00) .906	(22.70) .894	-6	(30.20) 1.189	(29.90) 1.177	<table><tr><th colspan="8">KEYING</th></tr><tr><th>-L / -R</th><th>-A</th><th>-B</th><th>-C</th><th>-D</th><th>-E</th><th>-F</th><th>-G</th><th>-H</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					KEYING								-L / -R	-A	-B	-C	-D	-E	-F	-G	-H									
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EBCF
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EBCM, EBTM
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Shroud:
EBCL

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

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