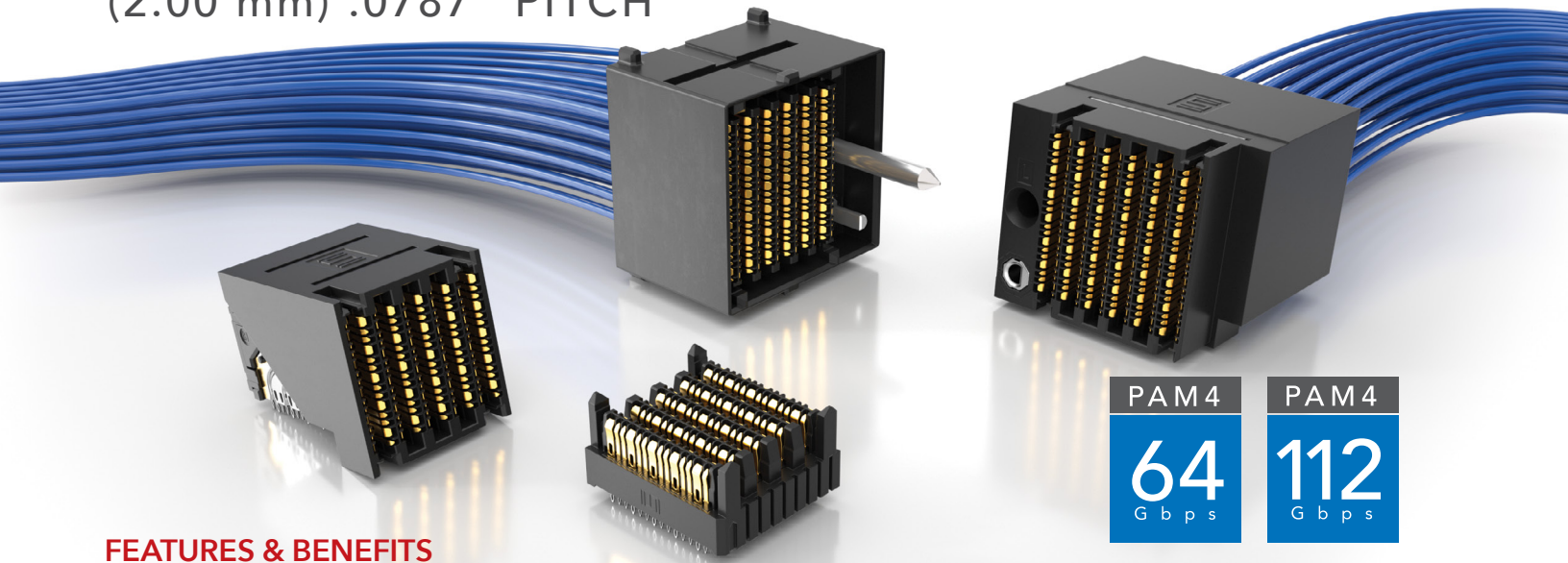


# ExaMAX<sup>®</sup>

## HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



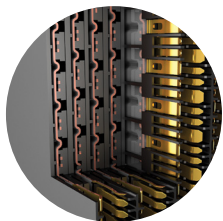
### FEATURES & BENEFITS

#### ExaMAX<sup>®</sup> High-Speed Backplane System

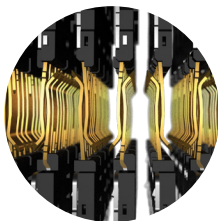
- Meets a variety of industry specifications
- Traditional, coplanar and direct mate orthogonal
- 24 - 72 pair designs (4 and 6 pairs; 6, 8, 10 and 12 columns)
- Shielded wafer design reduces crosstalk and includes one sideband signal per column
- Press-fit tails provide a reliable electrical connection
- PCIe<sup>®</sup> 6.0/CXL<sup>®</sup> 3.2 capable

#### ExaMAX<sup>®</sup> High-Speed Backplane Cable Assemblies

- 30 & 34 AWG Eye Speed<sup>®</sup> ultra low skew twinax cable
- 34 AWG Eye Speed Thinax<sup>™</sup> 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<sup>®</sup> 6.0/CXL<sup>®</sup> 3.2 capable



Staggered Differential Pair Design



Two Reliable Points of Contact with a 2.4 mm Wipe



In Development: Open-Pin-Field, Coplanar Configuration



In Development: 2 Pair Design for a Lower Profile



In Development: ExaMAX2<sup>®</sup> 8 Pairs for 112 Gbps PAM4 Performance

### 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	2.6 A per pin	125 VAC/177 VDC	N/A

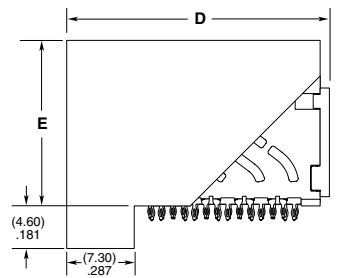
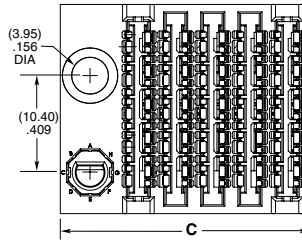
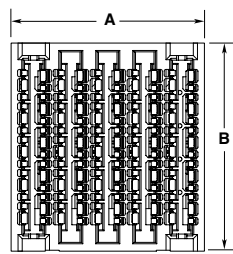
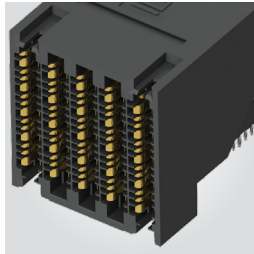
PCI-SIG<sup>®</sup>, PCI Express<sup>®</sup> and the PCIe<sup>®</sup> design marks are registered trademarks and/or service marks of PCI-SIG.

(2.00 mm) .0787" PITCH • RIGHT-ANGLE SOCKET & DIRECT-MATE ORTHOGONAL

EBTF	NO. OF PAIRS PER COLUMN	COLUMNS	COLUMN PITCH	PLATING	RA	PIN CONFIGURATION	GUIDANCE	KEYING
	-4 = 4 Pairs  -6 = 6 Pairs	-06, -08, -10, -12 (-12 column only available in -6 pairs)	-2.0 = (2.0 mm) .0787"	-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on tails		-1 = Standard  -5 = Open Pin Field (only available in -6 pairs)	(Leave Blank for no Guidance)  -L = Left Guidance  -R = Right Guidance	(Only with -L or -R Guidance; Leave Blank for no Keying)  -A thru -H = Position of Flat on Key (See Table)

**EBTF-RA**  
Board Mates:  
EBTM,  
EBDM-RA

Cable Mates:  
EBCM



KEYING (-RA)								
-L / -R	-A	-B	-C	-D	-E	-F	-G	-H

NO. OF COLUMNS	A	C
-06	(12.90) .508	(18.85) .742
-08	(16.90) .665	(22.85) .900
-10	(20.90) .823	(26.85) 1.057
-12	(24.90) .980	(30.85) 1.215

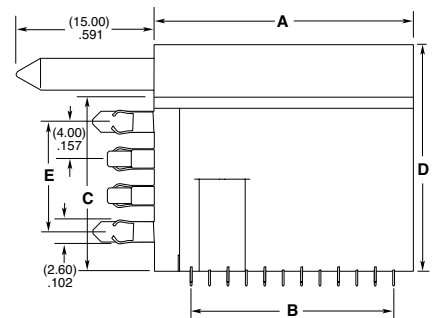
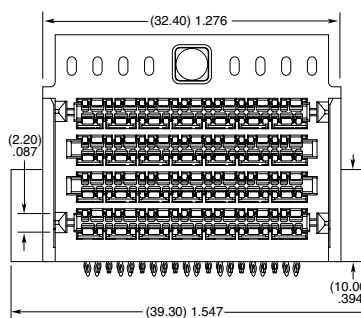
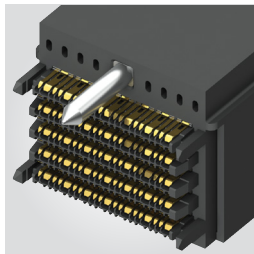
NO. OF PAIRS PER COLUMN	B	D	E
-4	(22.50) .886	(28.40) 1.118	(17.90) .705
-6	(29.70) 1.169	(35.60) 1.402	(25.10) .988

View complete specifications at: [samtec.com?EBTF-RA](http://samtec.com?EBTF-RA)

EBDM	PAIRS	COLUMNS	2.0	PLATING	RA	PIN CONFIGURATION	GUIDANCE	SCREW MOUNT
	-6 = 6 Pairs	-06, -08, -10, -12		-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on tails		-1 = Standard	(Leave Blank for no Pin)  -G = Guide Pin	(Leave Blank for no Screw Mount)  -S = Screw Mount

**EBDM-RA**  
Board Mates:  
EBTF-RA

Cable Mates:  
EBCF



COLUMNS	A	B	C (without -G)	D (with -G)	E
-06	(16.15) .636	(10.00) .394	(15.00) .591	(20.65) .813	(8.00) .315
-08	(20.15) .793	(14.00) .551	(19.00) .748	(24.65) .970	(12.00) .472
-10	(24.15) .951	(18.00) .709	(23.00) .906	(28.65) 1.128	(16.00) .630
-12	(28.15) 1.108	(22.00) .866	(27.00) 1.063	(32.65) 1.285	(20.00) .787

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

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View complete specifications at: [samtec.com?EBDM-RA](http://samtec.com?EBDM-RA)