ExaMAX®

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH

**PAM4**
56 Gbps

PAM4
112 Gbps
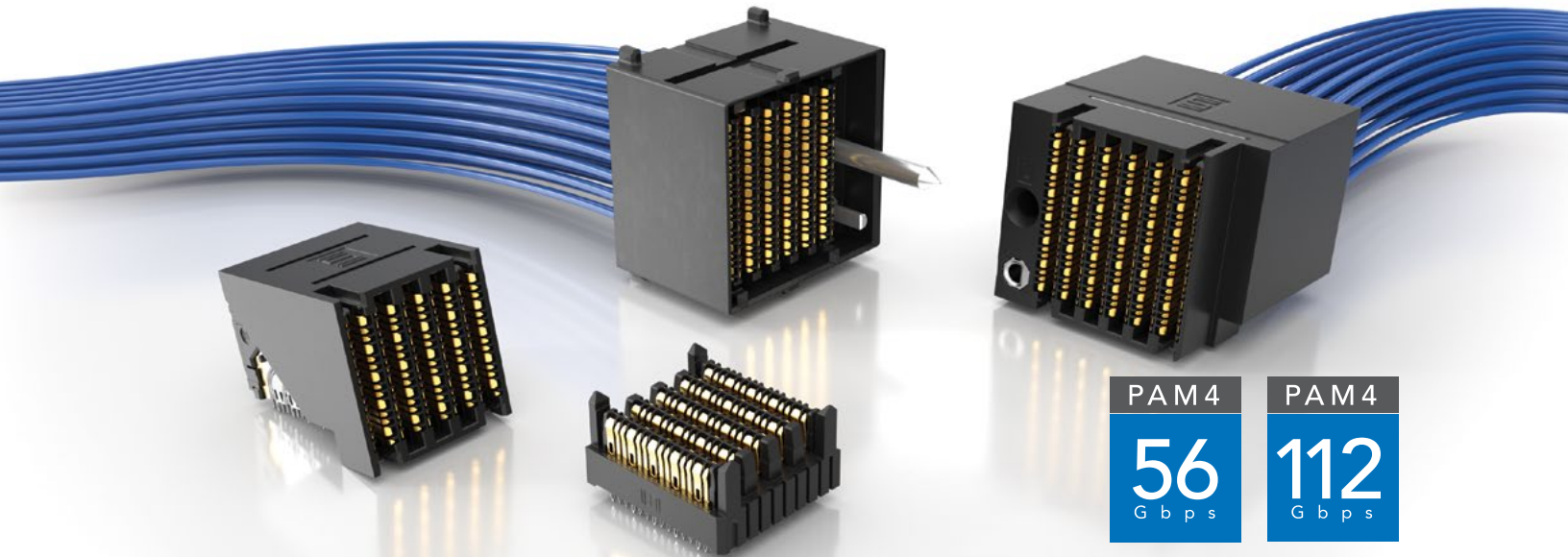
FEATURES & BENEFITS

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 increases isolation for reduced crosstalk
- Press-fit tails provide a reliable electrical connection

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
- Multiple end options available
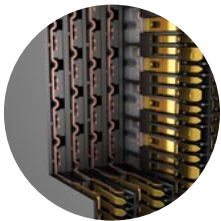
Staggered Differential Pair Design
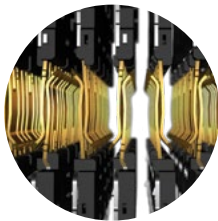
Two Reliable Points of Contact at All Times
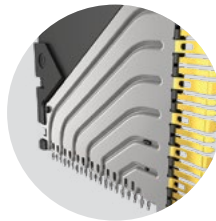
Wafer Design Reduces Crosstalk

Traditional, Coplanar and Direct Mate Orthogonal

Intermateable with all ExaMAX® Connectors

KEY SPECIFICATIONS

| PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING
2.00 mm	LCP Zinc Alloy (EGBX Series only)	Copper Alloy	Sn over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C	4.2 A per pin

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ExaMAX®

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

EBTF	NO. OF PAIRS PER COLUMN	COLUMNS	COLUMN PITCH	PLATING	RA	1	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			(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

(3.95) .156 DIA

(10.40) .409

(4.60) .181

(7.30) .287
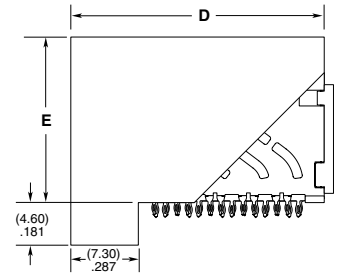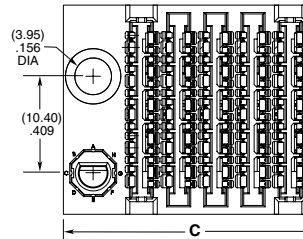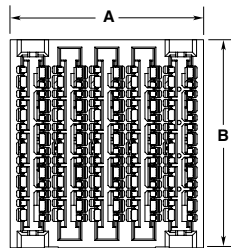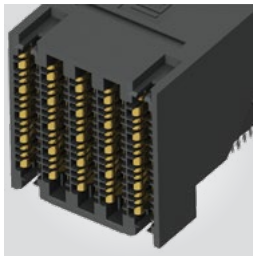
KEYING (-RA)

	–A	–B	–C	–D	–E	–F	–G	–H
–L / –R								

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**

EBDM	PAIRS	COLUMNS	2.0	PLATING	RA	1	GUIDANCE	SCREW MOUNT
	–6 = 6 Pairs	**–06, –08, –10, –12**		**–S** = 30 µ" (0.76 µm) Gold on contact area, Matte Tin on tails			(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

(32.40) 1.276

(2.20) .087

(39.30) 1.547

(10.00) .394

(15.00) .591

(4.00) .157

(2.60) .102
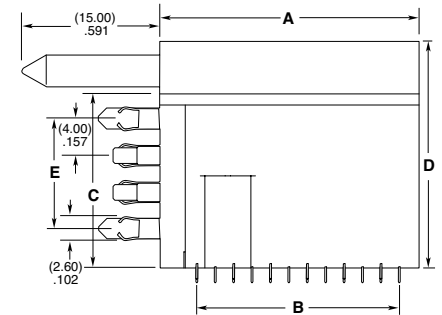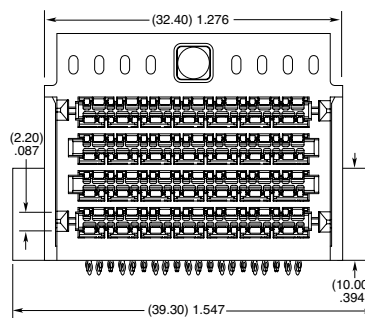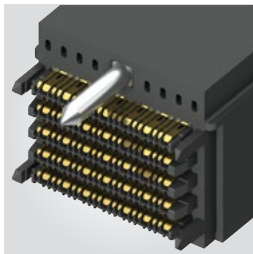
COLUMNS	A	B	C (without –G)	D (with –G)	E
–06	(16.15) .636	(10.00) .394	(15.00) .591	(20.65) .813	(8.00) .315
–08	(20.15) .793	(14.00) .551	(19.00) .748	(24.65) .970	(12.00) .472
–10	(24.15) .951	(18.00) .709	(23.00) .906	(28.65) 1.128	(16.00) .630
–12	(28.15) 1.108	(22.00) .866	(27.00) 1.063	(32.65) 1.285	(20.00) .787

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

ExaMAX® is a registered trademark of AFCI.

View complete specifications at: **samtec.com?EBDM-RA**