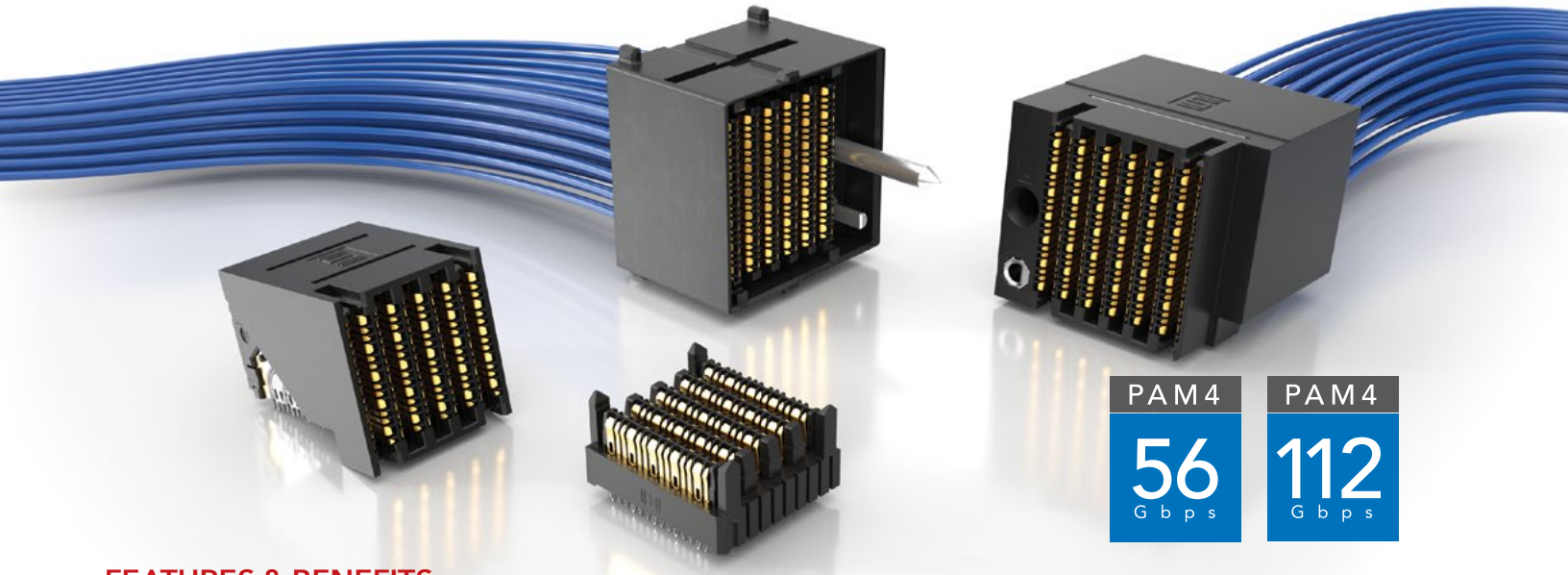
ExaMAX®

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



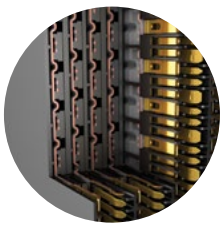
FEATURES & BENEFITS

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 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

ExaMAX®

PAM4 112 Gbps

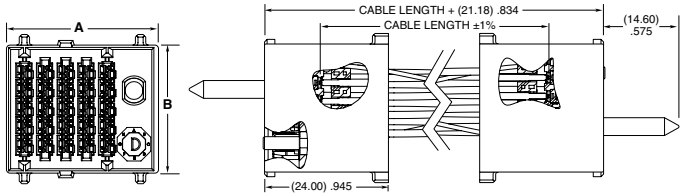
(2.00 mm) .0787" PITCH • BACKPLANE CABLES

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, –06, –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 06" (152.4 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

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

PAIRS PER COLUMN	B
–4	(24.80) .976
–6	(32.00) 1.260

EBCM
Mates with:
EBCF, EBTF, EBCB



END 1: –L–G SHOWN **END 2**

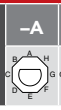
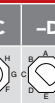
View complete specifications at: samtec.com?EBCM

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, –06, –08, –10, –12, –14, –16**	**–V** = Vertical Latch	**–1** = Standard	**–"XX"** = Length in Inches 06" (152.4 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)

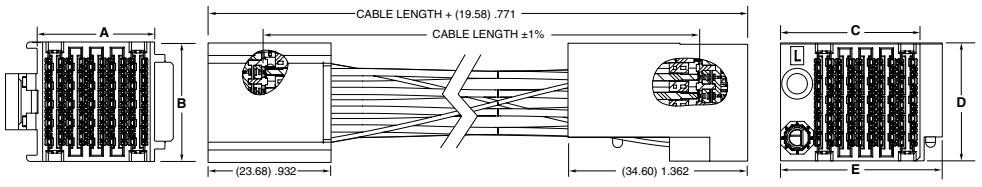
NO. OF COLUMNS	A	C	E
–04	(10.60) .417	(14.85) .585	(19.15) .754
–06	(14.60) .575	(18.85) .742	(23.15) .911
–08	(18.60) .732	(22.85) .900	(27.15) 1.069
–10	(22.60) .890	(26.85) 1.057	(31.15) 1.226
–12	(26.60) 1.047	(38,85) 1.530	(43.15) 1.699
–14	(30.60) 1.205	(34.85) 1.372	(39.15) 1.541
–16	(34.60) 1.362	(38,85) 1.530	(43.15) 1.699

PAIRS PER COLUMN	B	D
–4	(23.00) .906	(22.70) .894
–6	(30.20) 1.189	(29.90) 1.177

KEYING

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

EBCF
Mates with:
EBCM, EBTM, EBCL



END 1: –V SHOWN **END 2: –L–G SHOWN**

Notes:
Some lengths, styles and options are non-standard, non-returnable. ExaMAX® is a registered trademark of AFCI.

View complete specifications at: samtec.com?EBCF

Mouser Electronics

Authorized Distributor

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