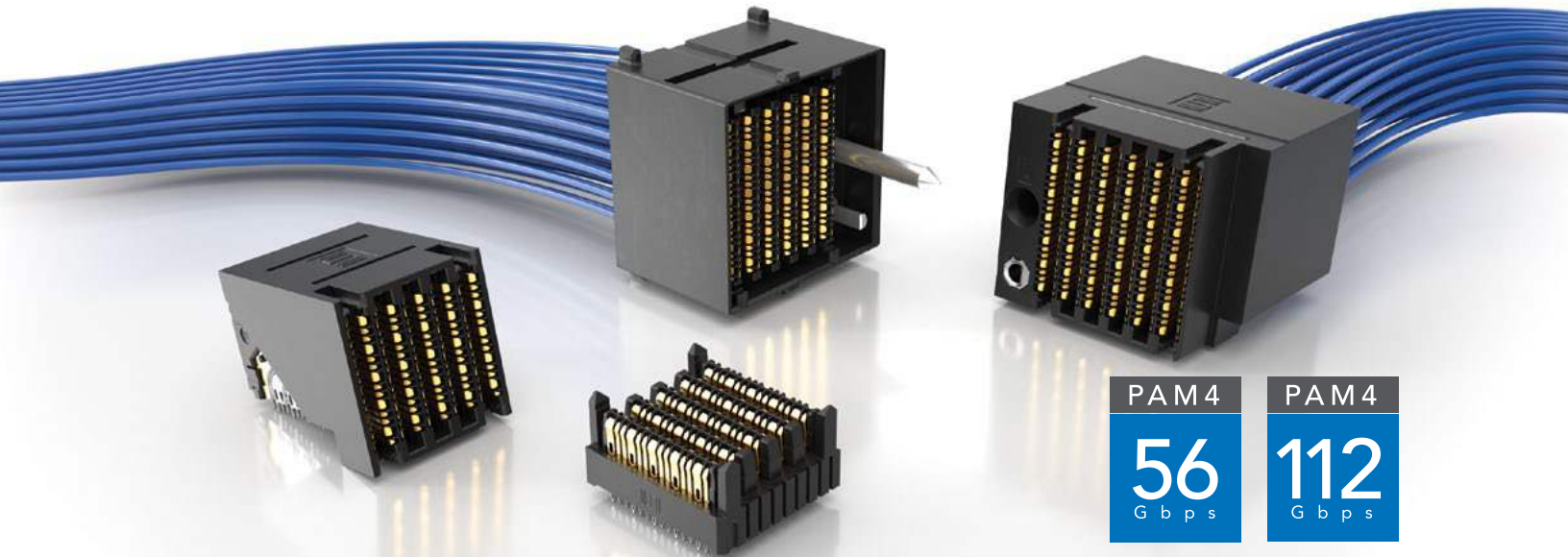


# ExaMAX<sup>®</sup>

## HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



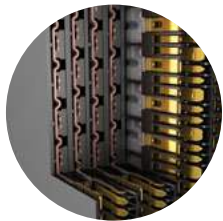
### FEATURES & BENEFITS

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

- Meets a variety of industry specifications
- 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<sup>®</sup> High-Speed Backplane Cable Assemblies

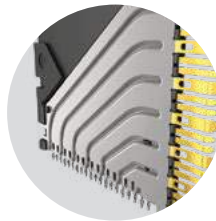
- 30 & 34 AWG Eye Speed<sup>®</sup> Ultra Low Skew Twinax Cable offers improved signal integrity, increased flexibility and routability
- Highly customizable with modular flexibility
- Reduce costs due to lower layer counts
- Multiple end options available



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<sup>®</sup> 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 $\mu$ " (1.27 $\mu$ m) Ni	-55 °C to +105 °C	4.2 A per pin

(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

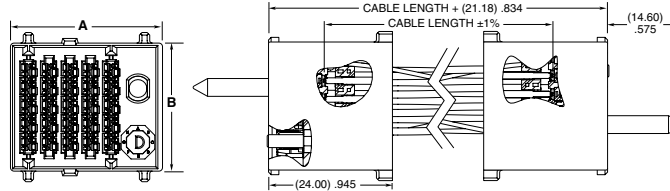
NO. OF COLUMNS	A
-04	(17.45) .687
-06	(21.45) .845
-08	(25.45) 1.002
-10	(29.45) 1.159
-12	(33.45) 1.317
-14	(37.45) 1.474
-16	(41.45) 1.632

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](http://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)


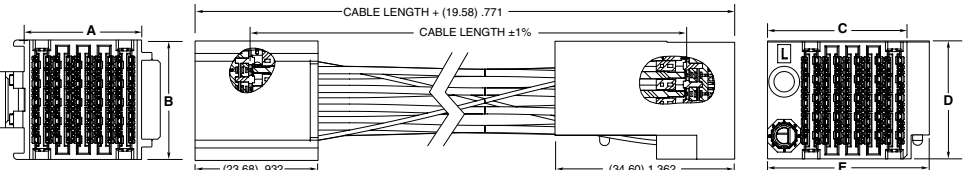
NO. OF COLUMNS	A	C	E
-04	(10.60) .417	(14.85) .585	(19.15) .754
-06	(14.60) .575	(18.85) .742	(23.15) .911
-08	(18.60) .732	(22.85) .900	(27.15) 1.069
-10	(22.60) .890	(26.85) 1.057	(31.15) 1.226
-12	(26.60) 1.047	(30.85) 1.530	(35.15) 1.699
-14	(30.60) 1.205	(34.85) 1.372	(39.15) 1.541
-16	(34.60) 1.362	(38.85) 1.530	(43.15) 1.699

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

END 1: -V SHOWN      END 2: -L-G SHOWN

**Notes:**  
Some lengths, styles and options are non-standard, non-returnable. ExaMAX<sup>®</sup> is a registered trademark of AFCEI.

View complete specifications at: [samtec.com?EBCF](http://samtec.com?EBCF)