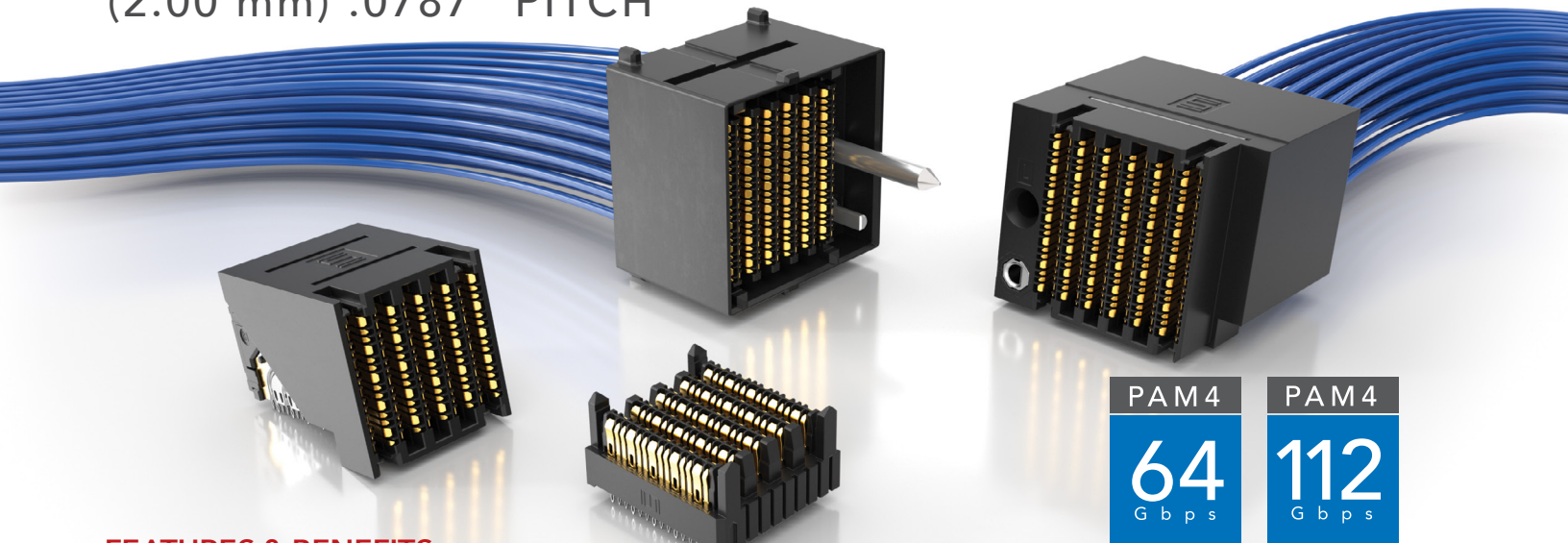


ExaMAX[®]

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



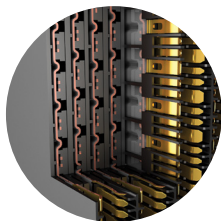
FEATURES & BENEFITS

ExaMAX[®] High-Speed Backplane System

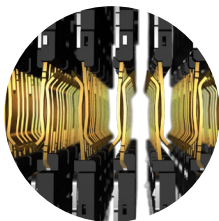
- Meets a variety of industry specifications
- Traditional, coplanar and direct mate orthogonal
- 24 - 72 pair designs (4 and 6 pairs; 6, 8, 10 and 12 columns)
- Shielded wafer design reduces crosstalk and includes one sideband signal per column
- Press-fit tails provide a reliable electrical connection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

ExaMAX[®] High-Speed Backplane Cable Assemblies

- 30 & 34 AWG Eye Speed[®] ultra low skew twinax cable
- 34 AWG Eye Speed Thinax[™] 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



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[®] 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 μ m) 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 μ m) 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 μ m) Ni	-40 °C to +105 °C	2.6 A per pin	125 VAC/177 VDC	N/A

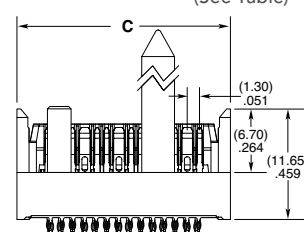
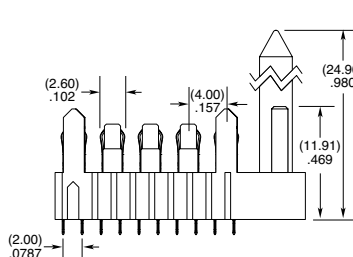
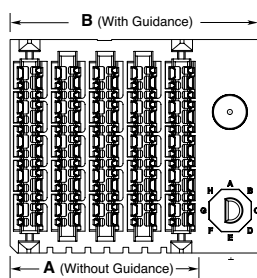
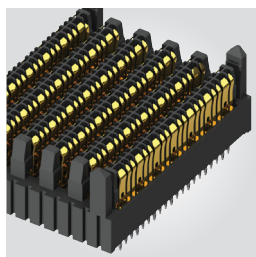
PCI-SIG[®], PCI Express[®] and the PCIe[®] design marks are registered trademarks and/or service marks of PCI-SIG.

(2.00 mm) .0787" PITCH • VERTICAL & RIGHT-ANGLE HEADERS

EBTM	NO. OF PAIRS PER COLUMN	COLUMNS	COLUMN PITCH	PLATING	ORIENTATION	PIN CONFIGURATION	GUIDANCE	KEYING
	-4 = 4 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 tail	-VT = Vertical -RA = Right-Angle	-1 = Standard -5 = Open Pin Field (-6 Pairs with -RA only)	(Leave Blank for no Guidance) -L = Left Guidance -R = Right Guidance	(Only available with -L or -R Guidance) (Leave Blank for no Keying) -A thru -H Position of flat on Key (See Table)

EBTM-VT
Board Mates:
EBTF-RA

Cable Mates:
EBCF



KEYING (-VT)

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

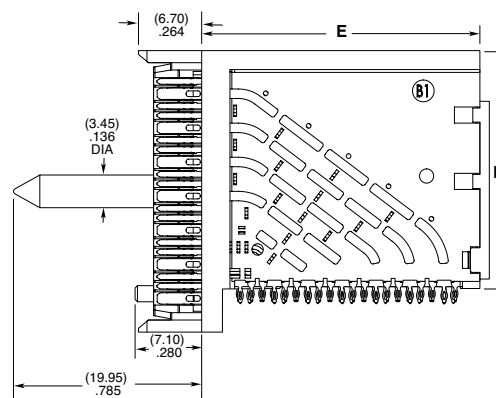
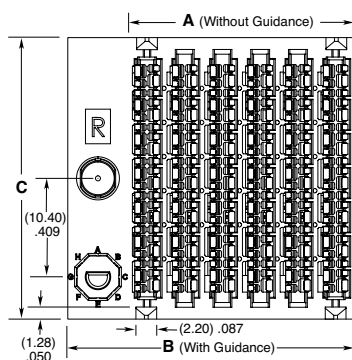
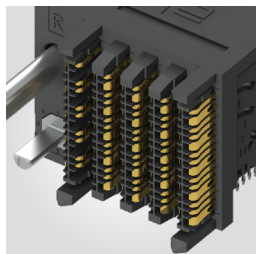
COLUMNS	A	B
-06	(11.90) .469	(18.35) .722
-08	(15.90) .626	(22.35) .880
-10	(19.90) .783	(26.35) 1.037
-12	(23.90) .941	(30.35) 1.195

NO. OF PAIRS PER COLUMN	C
-4	(22.50) .886
-6	(29.70) 1.169

View complete specifications at: samtec.com?EBTM

EBTM-RA
Board Mates:
EBTF-RA

Cable Mates:
EBCF



KEYING (-RA)

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

COLUMNS	A	B
-06	(11.90) .469	(18.35) .722
-08	(15.90) .626	(22.35) .880
-10	(19.90) .783	(26.35) 1.037
-12	(23.90) .941	(30.35) 1.195

NO. OF PAIRS PER COLUMN	C	D	E
-4	(22.50) .886	(17.90) .705	(23.30) .917
-6	(29.70) 1.169	(25.10) .988	(30.50) 1.201

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

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View complete specifications at: samtec.com?EBTM-RA