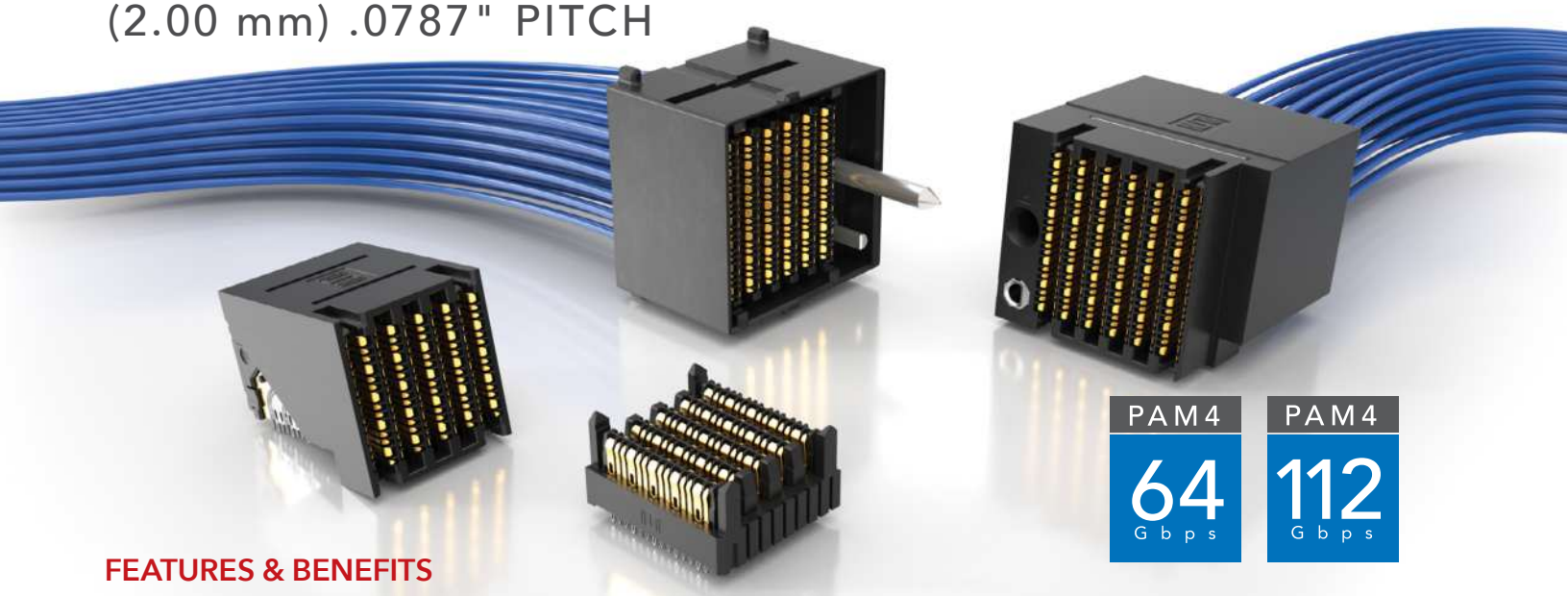
ExaMAX®

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



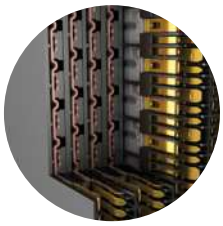
FEATURES & BENEFITS

ExaMAX® High-Speed Backplane System

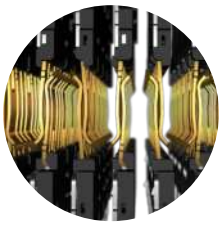
- Meets a variety of industry specifications
- Traditional, coplanar and direct mate orthogonal
- 24 - 72 pair designs (4 and 6 pairs; 6, 8, 10 and 12 columns)
- Shielded wafer design reduces crosstalk and includes one sideband signal per column
- Press-fit tails provide a reliable electrical connection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



Open-Pin-Field, Coplaner 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 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®, PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

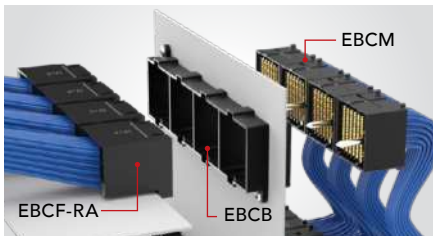
ExaMAX®

PANEL RETENTION BRACKETS

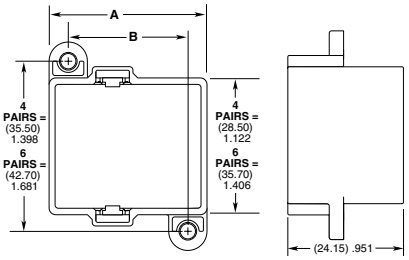
EBCB	NO. OF PAIRS	NO. OF COLUMNS	NO. OF BANKS	MOUNTING OPTION
	–4 = 4 Pairs **–6** = 6 Pairs	**–04, –06, –08, –10, –12, –14, –16** (– 04, –06 only available with –1–S)	**–1, –2, –4** (–2 & –4 banks available with –08, –10, –12, –14, –16 columns only)	(Leave Blank for Standard) **–S** = Side Lugs (–1 Bank Only)

EBCB

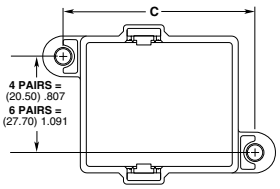
Use with:
EBCF, EBCM, EBTF-RA



EBCM Cable Assembly Locks into EBCB Retention Bracket

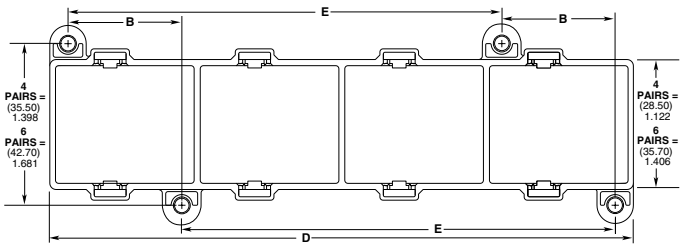


EBCB–X–XX–1 SHOWN



EBCB–X–XX–1–S SHOWN

NO. OF COLUMNS	C
–04	(27.95) 1.100
–06	(31.95) 1.258
–08	(35.95) 1.415
–10	(39.95) 1.573
–12	(43.95) 1.730
–14	(47.95) 1.888
–16	(51.95) 2.045



EBCB–X–XX–4 SHOWN

NO. OF COLUMNS	A		B		D	E
	1 Bank	2 Bank	1 or 4 Bank	2 Bank	4 Bank	4 Bank
–04	(20.95) .825	N/A	N/A	N/A	N/A	N/A
–06	(24.95) .982	N/A	N/A	N/A	N/A	N/A
–08	(28.95) 1.140	(56.65) 2.230	(20.95) .825	(48.65) 1.915	(112.05) 4.411	(83.10) 3.272
–10	(32.95) 1.297	(64.65) 2.545	(24.95) .982	(56.65) 2.230	(128.05) 5.041	(95.10) 3.744
–12	(36.95) 1.455	(72.65) 2.860	(28.95) 1.140	(64.65) 2.545	(144.05) 5.671	(107.10) 4.217
–14	(40.95) 1.612	(80.65) 3.175	(32.95) 1.297	(72.65) 2.860	(160.05) 6.301	(119.10) 4.689
–16	(44.95) 1.770	(88.65) 3.490	(36.95) 1.455	(80.65) 3.175	(176.05) 6.931	(131.10) 5.161

View complete specifications at: **samtec.com?EBCB**

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