ExaMAX®

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH


PAM4 **56** Gbps

PAM4 **112** Gbps
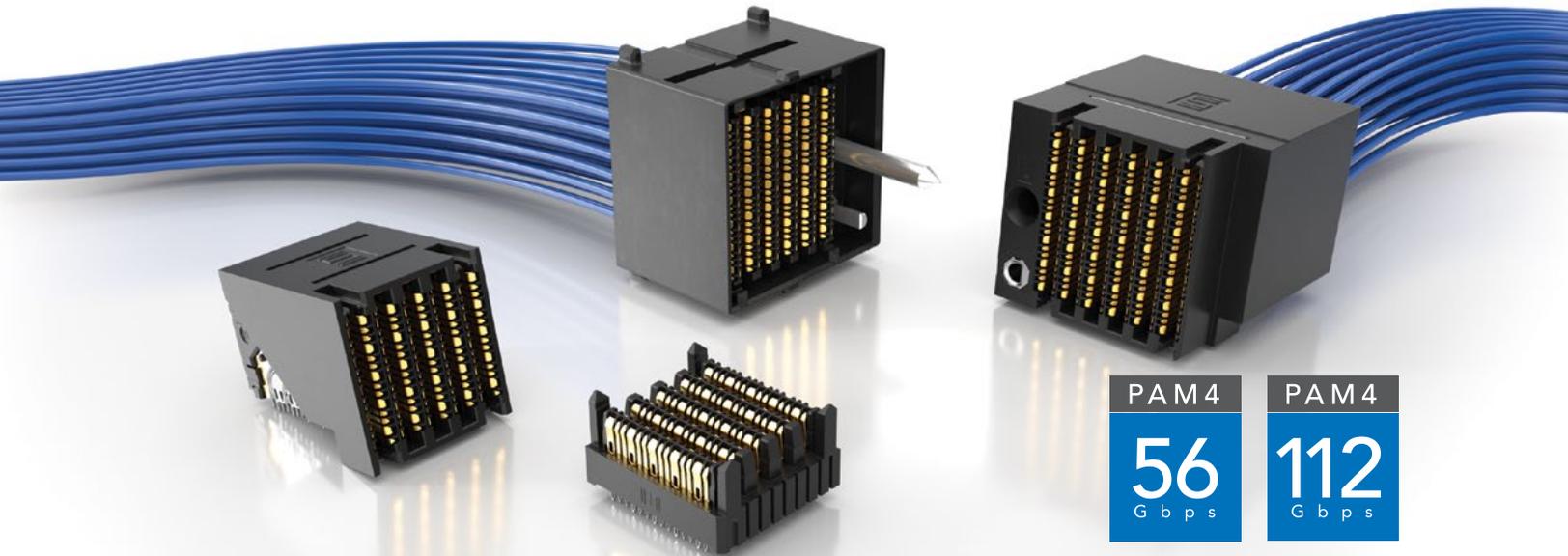
FEATURES & BENEFITS

**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 includes one sideband signal per column
- 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
- Eye Speed® Thinax™ ultra performance twinax cable version in development
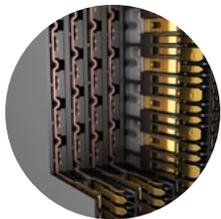
Staggered Differential Pair Design
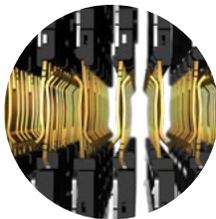
Two Reliable Points of Contact with a 2.4 mm Wipe
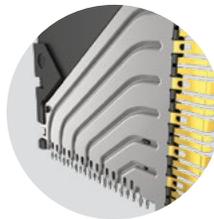
Shielded Wafer Design Reduces Crosstalk

Traditional, Coplanar and Direct Mate Orthogonal

In Development: 8 Pairs for Greater Design Flexibility

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	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	Yes
EBCM/EBCF	Liquid Crystal Polymer	Copper Alloy	Au over 50 µ" (1.27 µm) Ni	-40 °C to +105 °C	3.6 A per pin	125 VAC	N/A

ExaMAX®

ExaMAX® POWER MODULES

(2.00 mm) .0787" PITCH TERMINAL POWER MODULES

EPTT
Mates with:
EPTS

EPTT	POSITIONS PER ROW	PLATING	HEIGHT	D	ORIENTATION
	–2 = 4 Positions	**–P** = Palladium with flash Gold on contacts, Matte Tin on tails	**–11.5** = (11.50 mm) .453"		**–RA** = Right-Angle

(2.00 mm) .0787" PITCH SOCKET POWER MODULES
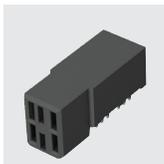
EPTS
Mates with:
EPTT

EPTS	POSITIONS PER ROW	PLATING	D	ORIENTATION	PIN STAGING
	–2 = 4 Positions	**–P** = Palladium with flash Gold on contacts, Matte Tin on tails		**–VT** = Vertical **–RA** = Right-Angle	Visit website for dimensions. **–01 thru –06** (Vertical) **-04 & -08** (Right-Angle)

View complete specifications at: **samtec.com?EPTT & samtec.com?EPTS**

ExaMAX® GUIDE MODULES

TERMINAL GUIDE MODULES

EGBM
Mates with:
EGBF
Insulator Material:
Zinc Alloy

EGBM	ORIENTATION	THREADING	LENGTH	CARD SPACING
	–VT = Vertical **–RA** = Right-Angle	Leave Blank for -RA **–1** = External **–2** = Internal (25.3 Length only)	Leave Blank for -RA **–18.3** = 18.30 mm (.720") **–25.3** = 25.30 mm (.996")	**–20** = 20 mm (.787")

SOCKET GUIDE MODULES

EGBF
Mates with:
EGBM
Insulator Material:
Zinc Alloy

EGBF	ORIENTATION	CARD SPACING
	–RA = Right-Angle	**–20** = 20 mm (.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?EGBM & samtec.com?EGBF**