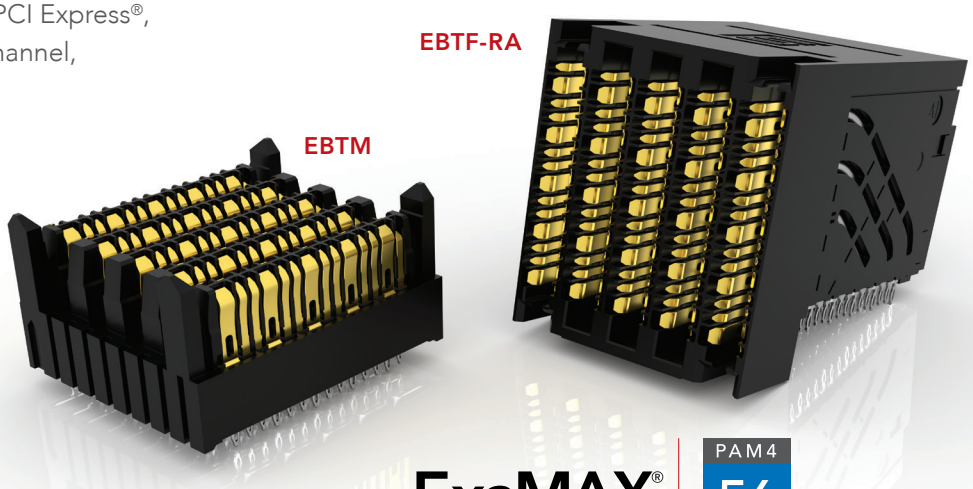
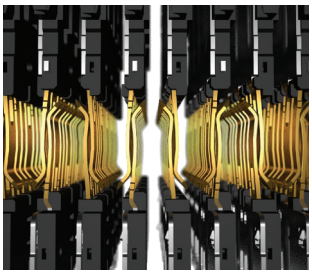
HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00mm) .0787" PITCH

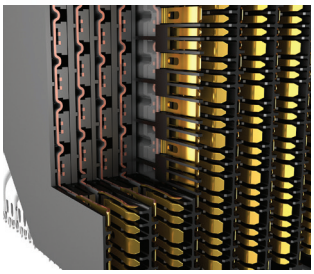
FEATURES & BENEFITS

- Meets industry specifications such as PCI Express®, Intel OPI and VPI, SAS, SATA, Fibre Channel, InfiniBand™ and Ethernet
- 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
- Cable assemblies available (EBCM/EBCF)

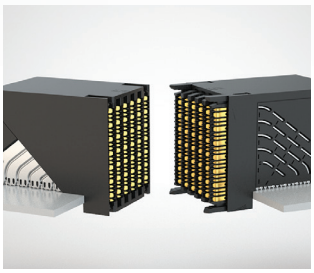




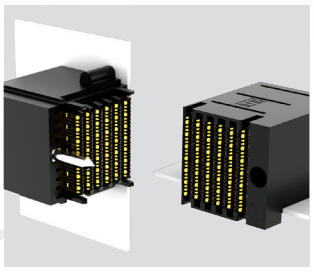
Two reliable points of contact



Staggered differential pair design with an embossed ground plane



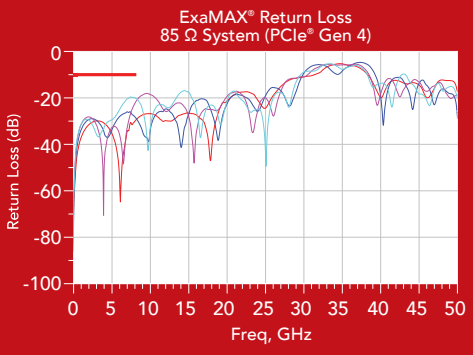
Coplanar available to bypass the midplane (EBTM-RA)

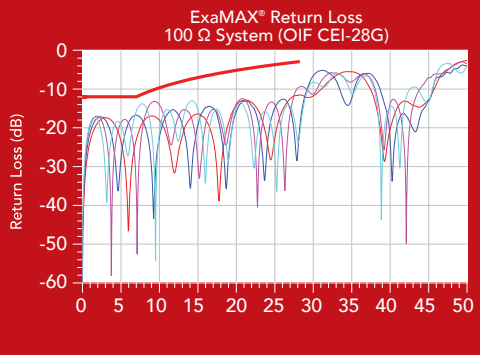


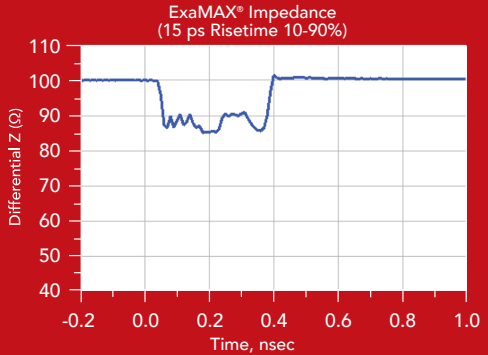
Direct-mate orthogonal (EBDM-RA) eliminates the midplane for a shorter signal path

PERFORMANCE CHARTS

ExaMAX® is engineered for 92 Ω impedance to address both 85 Ω and 100 Ω applications







EXAMAX® BACKPLANE CABLE ASSEMBLIES

- Utilizes Samtec's Eye Speed® ultra low skew twinax cable technology for improved signal integrity, increased flexibility and routability
- Highly customizable with modular flexibility
- Reduce costs due to lower layer counts
- 30 and 34 AWG
- Multiple end options available

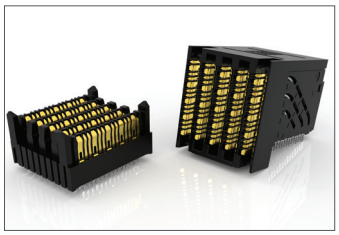
ExaMAX® | PAM4 112 Gbps

EBCF

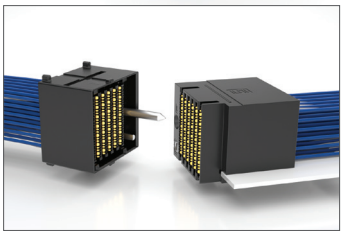
EBTM/EBCL

DESIGN FLEXIBILITY

4 and 6 pairs;
4-16 columns



Intermateable with all ExaMAX® connectors



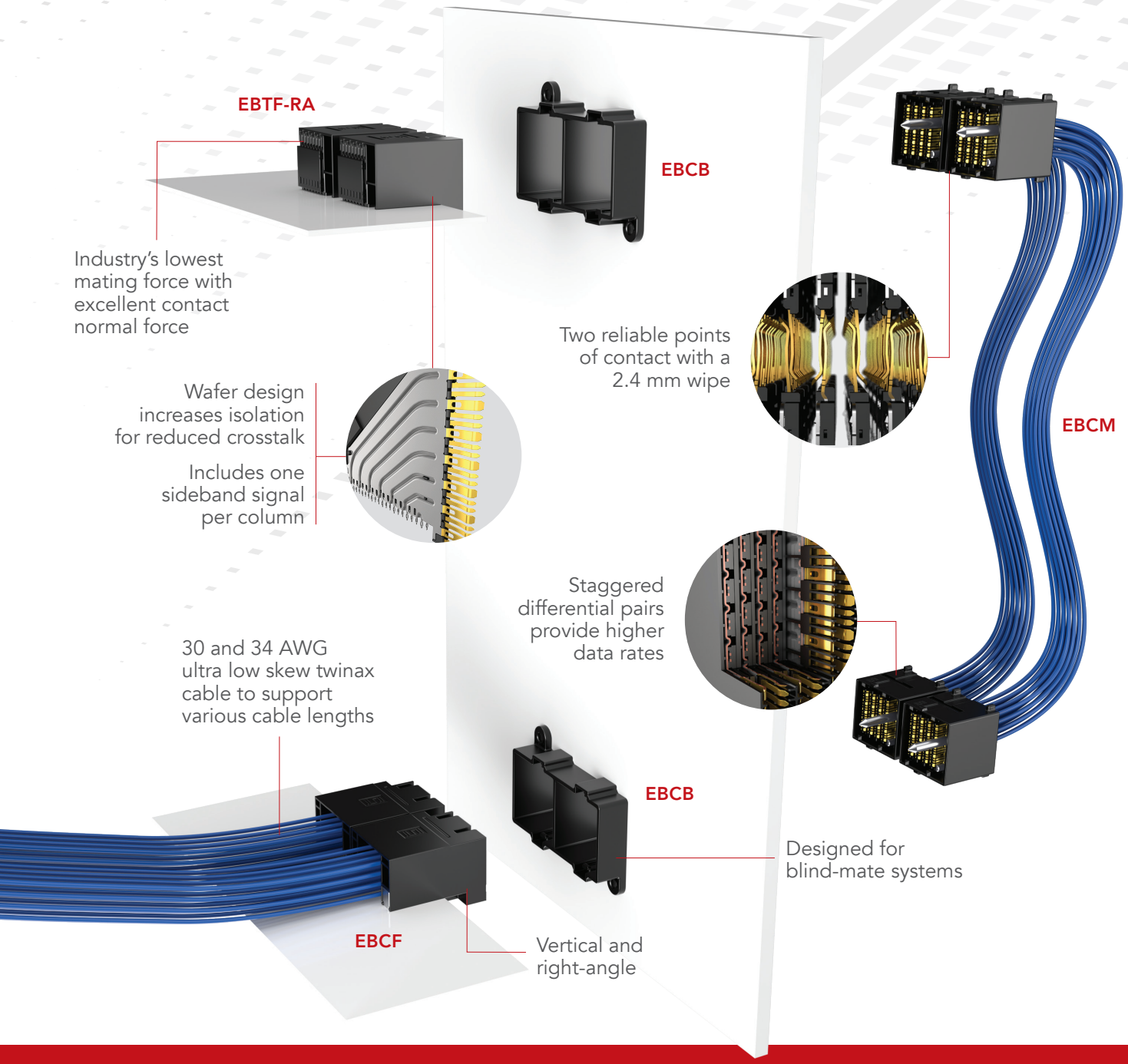
Integrated guidance and keying options

Cable-to-DMO
(Direct Mate Orthogonal)

HIGH-DENSITY APPLICATION

Increases architectural flexibility by overcoming the limitations of a traditional connector-to-connector backplane

samtec.com/backplane

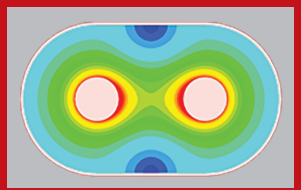


ULTRA LOW SKEW TWINAX CABLE

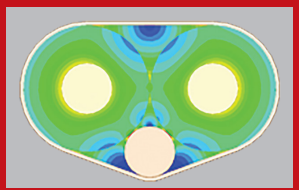
Samtec's Eye Speed® co-extruded twinax cable technology eliminates the performance limitations and inconsistencies of individually extruded dielectric twinax cabling, improving signal integrity, bandwidth and reach for high-performance system architectures.

- Tight coupling between signal conductors
- Improved bandwidth and reach
- Improved signal integrity and eye pattern opening

EYE® SPEED CABLE



✔ **Good** design coupling with Samtec's co-extruded ultra low skew twinax



✖ **Bad** design coupling with individually extruded conductors & drain wire

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