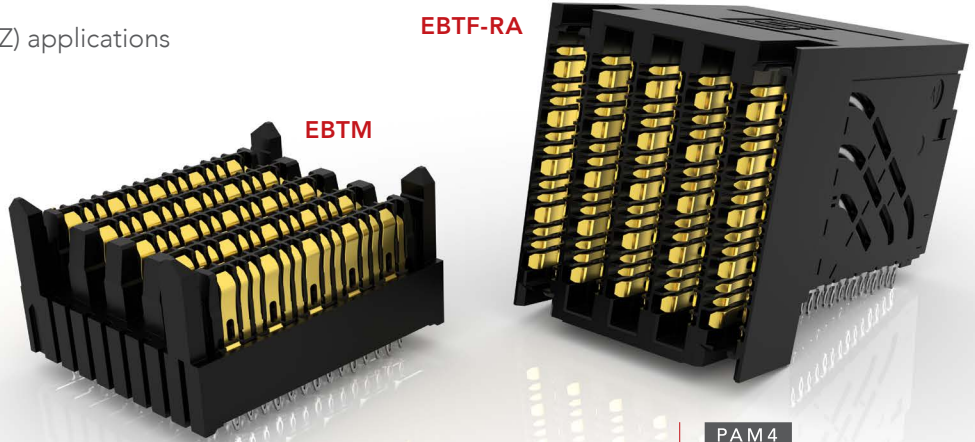




HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

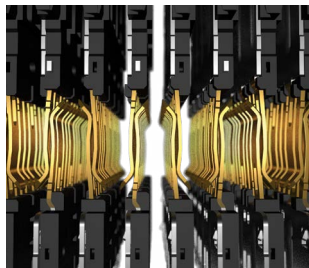
(2.00 mm) .0787" PITCH

- Meets industry specifications such as PCI Express®, Intel OPI and VPI, SAS, SATA, Fibre Channel, InfiniBand™ and Ethernet
- Supports 64 Gbps PAM4 (32 Gbps NRZ) applications
- PCIe® 6.0/CXL™ 3.1 capable
- 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)
- SI Evaluation Kit available, visit samtec.com/kits

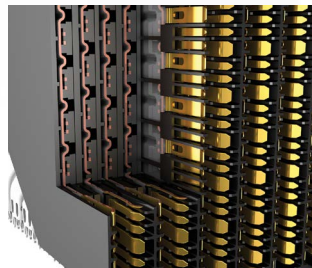


ExaMAX®

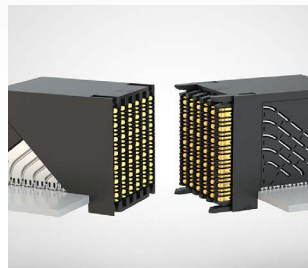
PAM4
64
Gbps



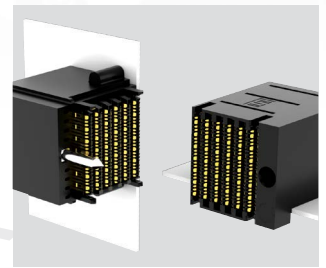
Two reliable points of contact



Staggered differential pair design with an embossed ground plane



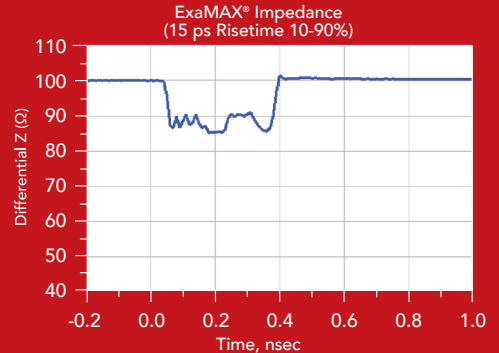
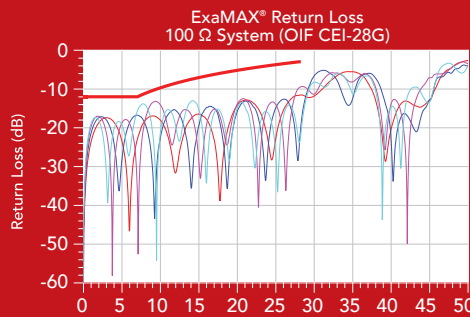
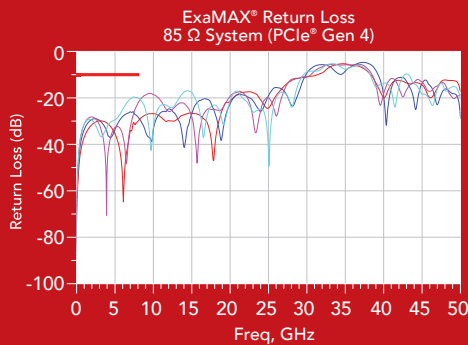
Coplanar available to bypass the midplane (EBTM-RA)



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® is a trademark of AFCI

EXAMAX® BACKPLANE CABLE ASSEMBLIES

- Utilizes Samtec's Eye Speed® ultra low skew twinax cable technology for improved signal integrity, increased flexibility and routability
- PCIe® 6.0/CXL™ 3.1 capable
- Highly customizable with modular flexibility
- Reduce costs due to lower layer counts
- 30 and 34 AWG

ExaMAX®

PAM4
112
Gbps



DESIGN FLEXIBILITY



4 and 6 pairs;
4-16 columns



Integrated guidance and
keying options



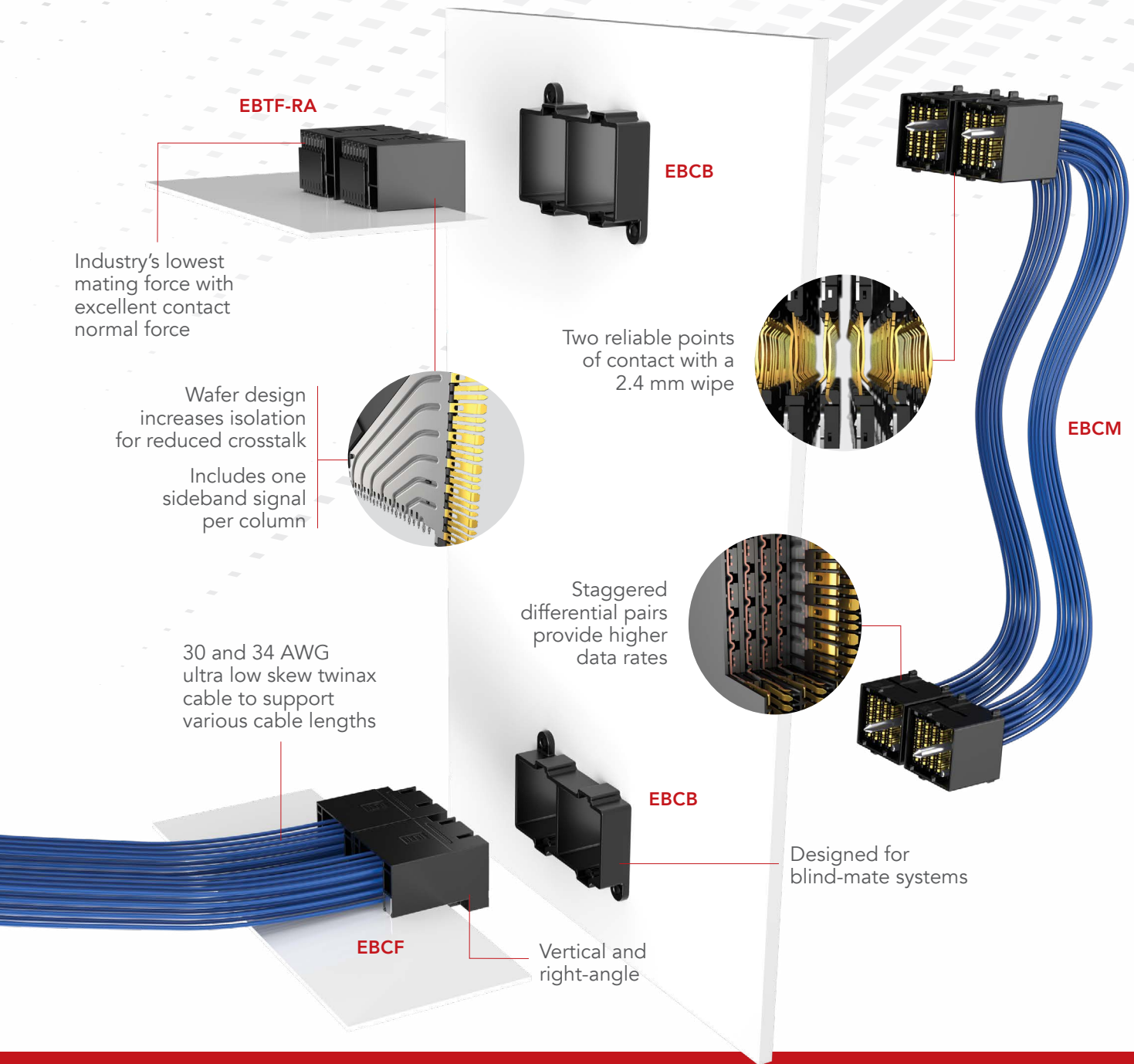
Cable-to-DMO
(Direct Mate Orthogonal)

HIGH-DENSITY APPLICATION



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

samtec.com/examax



EBCF-RA

Industry's lowest mating force with excellent contact normal force

Wafer design increases isolation for reduced crosstalk

Includes one sideband signal per column

30 and 34 AWG ultra low skew twinax cable to support various cable lengths

EBCF

Vertical and right-angle

EBCB

Two reliable points of contact with a 2.4 mm wipe

Staggered differential pairs provide higher data rates

EBCB

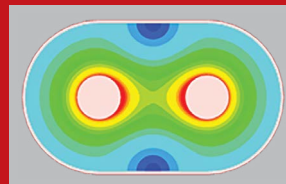
Designed for blind-mate systems

EBCM

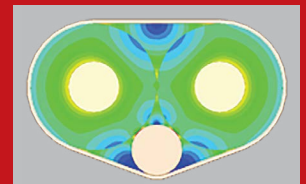
ULTRA LOW SKEW TWINAX CABLE

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



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



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