



ExaMAX[®] VS High Speed Backplane Connector System

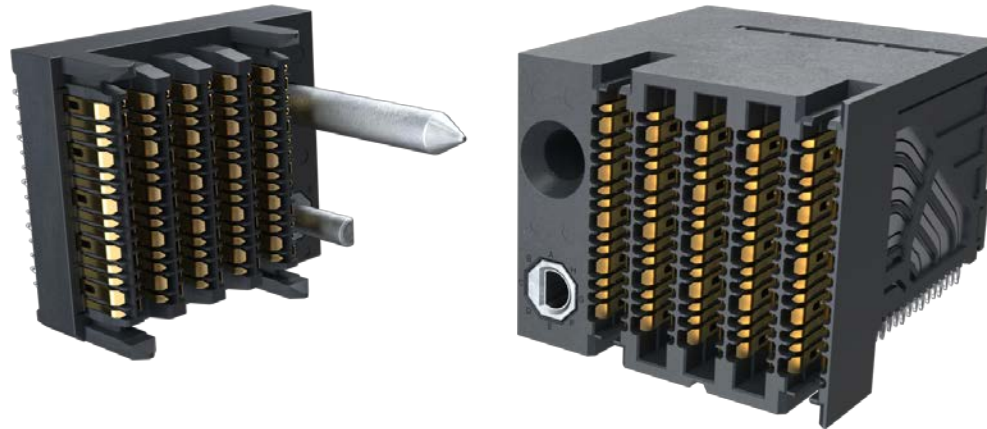
Product Presentation



EXAMAX[®] VS

What is it?

- ExaMAX[®] VS backplane connector system is a scalable, cost optimized connector system that meets industry specifications requiring higher bandwidth applications to 25Gb/s.
- The high performance connector system provides both mechanical robustness and superior signal integrity. ExaMAX[®] VS delivers low cross talk noise and low insertion loss while minimizing channel performance variation for every differential pair.



EXAMAX[®] VS



Advantages of ExaMAX[®] VS

- ExaMAX[®] VS offers a forward mating and footprint compatible design that enables a scalable migration path beyond 25Gb/s.
- The innovative beam-on-beam contact interface minimizes residual stub for improved signal integrity performance while providing exceptionally low mating forces.



INDUSTRY SPECIFICATIONS

Industry Specifications	Speed Performance
PCI Express (PCIe) Gen 1/2/3/4	2.5Gb/s to 16Gb/s
Serial Attached SCSI (SAS) 1.1/2.1/3.0/4.0	3Gb/s to 24Gb/s
SATA Revision 1.x/2.x/3.x	1.5Gb/s to 6Gb/s
Fibre Channel (FC) Gen1/Gen2/Gen3/Gen4/Gen5	1.0625Gb/s to 14.025Gb/s
InfiniBand (IB) SDR/DDR/QDR/FDR/EDR	2.5Gb/s to 25Gb/s
Ethernet 1Gbe/10Gbe/ 10Gbe/40Gbe/ 100Gbe/25Gbe	1.25Gb/s to 25.78125Gb/s

Features and Benefits

FEATURES

- Capable of supporting data rates up to 25Gb/s
- Scalable performance to higher bandwidth applications
- Unique beam-on-beam interface and skew equalized leadframes
- Hermaphroditic mating interface protects mating beams
- 92Ω nominal impedance
- Modular, hard metric connector block design
- Zero skew
- Additional signal pin per column
- High speed signal PCB hole: 0.036mm
- Integrated guide design

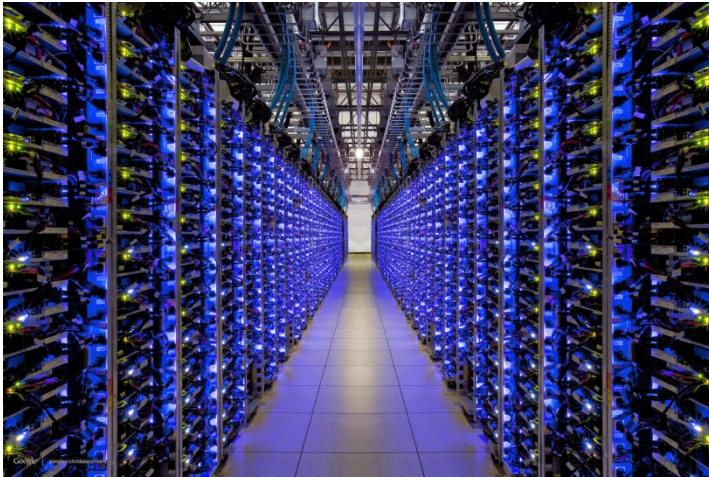
BENEFITS

- Meets Industry specifications such as PCI Express, SATA, Fiber Channel, InfiniBand, Ethernet, SAS, OIF CEI, IBTA FDR, IEEE
- Forward mating compatible
- Footprint compatible to standard ExaMAX® (56Gb/s)
- Provides low crosstalk while eliminating insertion loss resonances
- Reduces mating force up to 65% compared to traditional blade and beam designs
- Durable, reliable mating interface design eliminates crushed pins
- Minimizes impedance discontinuities
- 2mm pitch for high density application
- 3mm pitch enables quad routing and lower PCB cost
- Optimizes PCB routing
- Integrates high and low speed signals in the same connector
- Optimizes electrical performance and aspect ratio
- Improves mating performance using minimal board space

EXAMAX® VS



Typical Application



Data center



High End Telecom



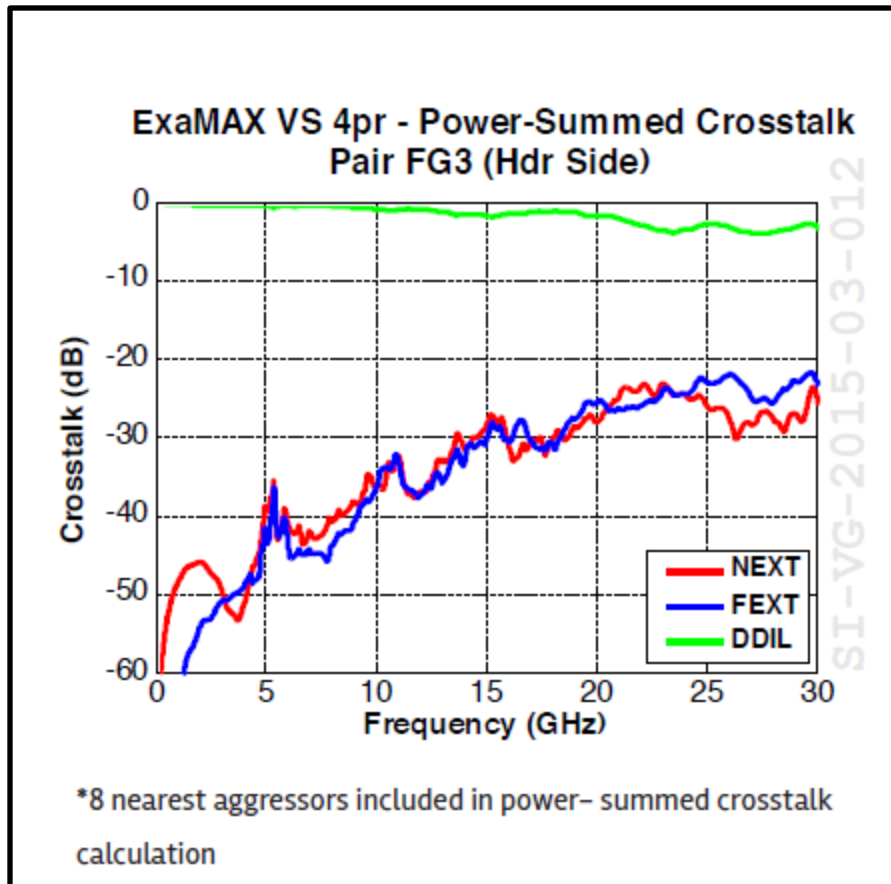
Computer Server

EXAMAX[®] VS

Specifications



Signal Integrity Performance



MECHANICAL PERFORMANCE

- Long mating wipe of > 2mm
- X and Y capture a generous 1.4mm
- Mating Force: 0.36N max. per contact
- Unmating Force: 0.12N min. per contact
- Average press-fit Insertion Force: 15N max. per contact

APPROVALS AND CERTIFICATIONS

- Telcordia GR-1217-CORE Central Office qualification passed
- UL E66906

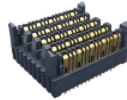
EXAMAX® VS



Part Numbers

EXAMAX® VS TRADITIONAL MOTHER-DAUGHTER BOARD: NO GUIDE

Product Variation			Mating Connector System	
Pairs	Columns	Differential Pairs	No Guide Pin	
			Vertical Header (VH)	Right Angle Receptacle (RAR)
4	6	24	10127896-101LF	10137857-101LF
	8	32	10121067-101LF	10137858-101LF
	10	40	10126366-101LF	10137859-101LF
	12	48	10132074-101LF	10137860-101LF



Vertical Header (No Guide)

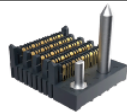


Right Angle Receptacle (No Guide)



EXAMAX® VS TRADITIONAL MOTHER-DAUGHTER BOARD: LEFT GUIDE

Product Variation			Mating Connector System	
Pairs	Columns	Differential Pairs	Left Guide Pin	
			Vertical Header (VH)	Right Angle Receptacle (RAR)
4	6	24	10127896-12JLF	10137857-12JLF
	8	32	10121067-12JLF	10137858-12JLF
	10	40	10126366-12JLF	10137859-12JLF
	12	48	10132074-12JLF	10137860-12JLF



Vertical Header (Left Guide)



Right Angle Receptacle (Left Guide)



EXAMAX® VS TRADITIONAL MOTHER-DAUGHTER BOARD: RIGHT GUIDE

Product Variation			Mating Connector System	
Pairs	Columns	Differential Pairs	Right Guide Pin	
			Vertical Header (VH)	Right Angle Receptacle (RAR)
4	6	24	10127896-11JLF	10137857-11JLF
	8	32	10121067-11JLF	10137858-11JLF
	10	40	10126366-11JLF	10137859-11JLF
	12	48	10132074-11JLF	10137860-11JLF



Vertical Header (Right Guide)



Right Angle Receptacle (Right Guide)





THANK YOU

