



AI/ML

Samtec offers a range of high-density connector and cable solutions for AI/ML systems pushing beyond 224 Gbps, including copper and optics in the same footprint. Samtec Sudden Service® includes full-system optimization support with industry-leading signal-integrity design expertise; characterization and development boards; and online design and development tools. For more information visit samtec.com/ai-ml, view the AI/ML Guide (samtec.com/ai-ml-guide) or email SIG@samtec.com.

Product Features & Benefits

- Signal integrity-optimized solutions
- Extended signal reach
- Industry-leading cable performance
- High-density solutions
- High frequency interfaces

Design & Development Support

- Industry-leading component and system-level engineering expertise
- Samtec works with system architects to optimize the architecture for cable management, keeping signal integrity and thermals in mind
- RF technical support for launch optimization, simulation and test & measurement



SIGNAL INTEGRITY SUPPORT

Samtec is the industry leader in Signal Integrity. Our mission is to help you attain full system optimization - from Silicon-to-Silicon™.

- Full channel analysis
- System optimization recommendations
- PDN simulations
- Advanced product design support

Visit samtec.com/sig or contact SIG@samtec.com.

INDUSTRY STANDARDS SUPPORT

Samtec offers solutions for expanding signal transmission possibilities at industry-leading data rates, including:

- PICMG®
- CXL®
- OIF

Contact Samtec's Industry Standards Group at Standards@samtec.com or visit samtec.com/standards.

EVALUATION & DEVELOPMENT KITS

Samtec-designed kits simplify the interconnect design process and reduce time to market.

Kits are tested and verified by Samtec's signal integrity experts before customer delivery.

Visit samtec.com/kits or contact KitsAndBoards@samtec.com.

ONLINE TOOLS

Solutionator®: Quickly build mated connector sets or design full cable assemblies



samtec.com/optics-solutionator



samtec.com/cablebuilder



samtec.com/hsb2b-solutionator

Picture Search: Browse through Samtec's most popular products to find the ideal solution

samtec.com/picturesearch

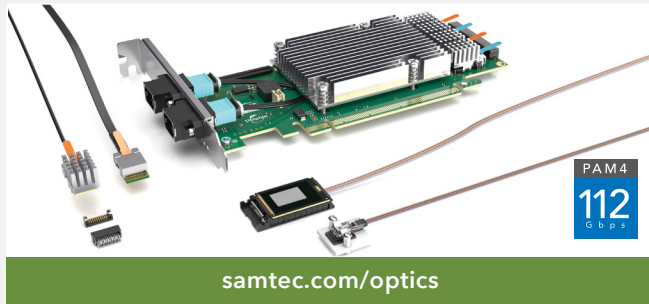
Downloadable Resources: Immediate and unlimited access to select the right solution - 3D models, prints and footprints, test reports, white papers and more

samtec.com

INTERCONNECT SOLUTIONS

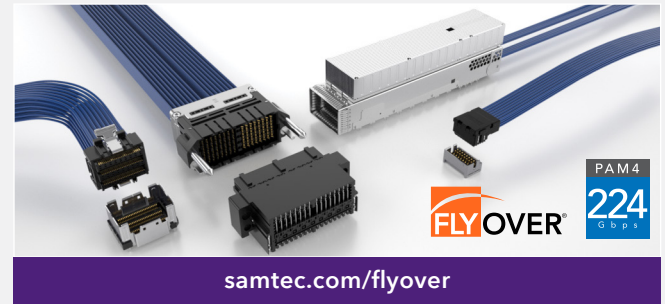
Mid-Board Optical Transceivers

Future-proof (interchangeability of copper and optical in the same footprint) and rad-hard solutions with a small form factor for reliable signal integrity at extended distances.



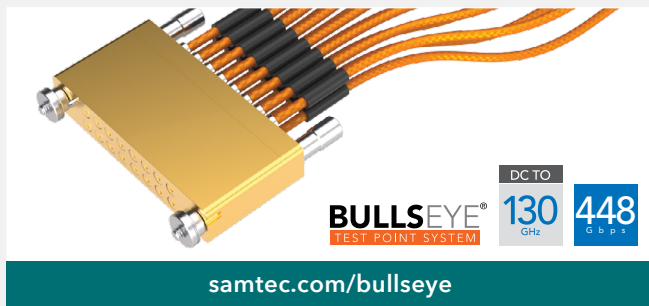
Flyover® Cable Systems

Extended signal reach and density to achieve next gen speeds by routing signals via ultra low skew twinax cable vs. lossy PCB for panel, mid-board and backplane applications.



High-Performance Test Systems

Bulls Eye® test and measurement assemblies to 130 GHz/ 448 Gbps with a high-density, space saving design that enables smaller evaluation boards and shorter trace lengths.



Ultra Micro Power

mPOWER® offers 40% space savings vs. traditional power interconnects with up to 10 power blades for board-to-board, cable-to-board and cable-to-cable applications.



Precision RF

Cable assemblies, cable & board connectors/adaptors for high frequency, microwave and mmWave applications.



High-Density Arrays

High-speed, high-density arrays with up to 800 I/Os in an open-pin-field design for grounding and routing flexibility.



COM-HPC® Solutions

High-speed, high-density interconnect system meets specifications for high-performance Computer-on Modules.



Visit [samtec.com](https://www.samtec.com) to view our full line of interconnect solutions.

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