



IMAGING

Samtec's broad range of copper and optical interconnects enable fast transmission of clean images during diagnostic procedures. Our non magnetic interconnects ensure compatibility with MRI and other sensitive equipment. Samtec is ready to help implement imaging and diagnostics solutions with industry-leading interconnect performance, full system optimization, quick-turn customization, and expert design assistance. For more information, including footprints and test reports, visit [Samtec.com/imaging](https://www.samtec.com/imaging) or email SIG@samtec.com.

Product Features & Benefits

- Small form factors/ultra-high densities
- Industry-leading performance
- Non magnetic features available
- Extended signal reach
- Configurable for power and data signals

Design & Development Support

- Industry-leading component and system-level engineering expertise
- Sudden Samples® for prototyping, rapid customization, and multiple levels of testing options speed time to market
- Samtec cable assemblies undergo cable flex and dynamic testing to prove consistent electrical stability in demanding applications



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](https://www.samtec.com/sig) or contact SIG@samtec.com.

INDUSTRY STANDARDS SUPPORT

Samtec offers solutions for expanding signal transmission possibilities across digital and RF systems using copper, fiber-optics, and glass core technology. Industry standard support includes PCI Express® as well as other rugged, small form factor, and embedded standards.

Contact Samtec's Industry Standards Group at Standards@samtec.com or visit [samtec.com/standards](https://www.samtec.com/standards).

EVALUATION & DEVELOPMENT KITS

Samtec-designed kits simplify interconnect systems and reduce time to market.

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

Visit [samtec.com/kits](https://www.samtec.com/kits) or contact KitsAndBoards@samtec.com.

ONLINE TOOLS

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



[samtec.com/cablebuilder](https://www.samtec.com/cablebuilder)



[samtec.com/optics-solutionator](https://www.samtec.com/optics-solutionator)



[samtec.com/hsb2b-solutionator](https://www.samtec.com/hsb2b-solutionator)

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

[samtec.com/picturesearch](https://www.samtec.com/picturesearch)

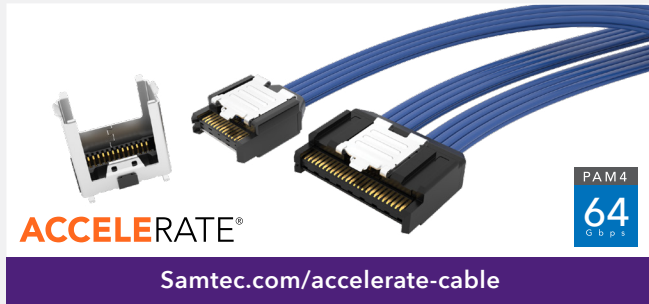
Downloadable Resources: Immediate and unlimited access to select the right solution - 3D models, prints and footprints, test reports, white papers and more

[samtec.com](https://www.samtec.com)

INTERCONNECT SOLUTIONS

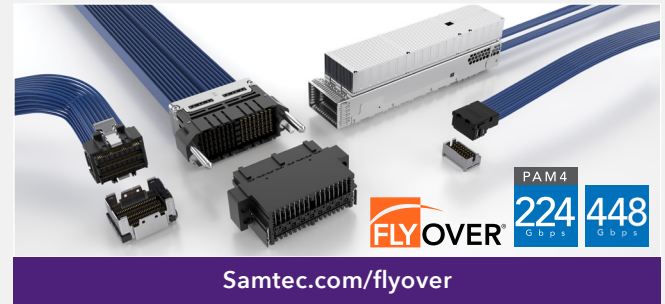
AcceRate Slim Cable Assembly

Industry's slimmest cable assembly (7.6 mm) features a high-density, 2-row design with direct attach technology and ultra low skew twinax cable for 64 Gbps PAM4 performance.



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.



Board-to-Cable Systems

High-speed cable assemblies with micro coax and twinax cable, for differential and single-ended applications. Assemblies include high-speed PCI Express® systems.



High-Speed Backplane

The 224 Gbps PAM4 Si-Fly® HD backplane system offers up to 2,048 differential pairs in one open rack unit. This is enabled by Samtec's Eye Speed® hyper low skew twinax cable.



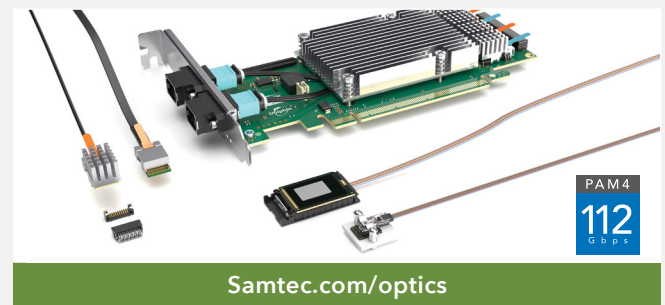
High-Density Backplane

High-density backplane systems featuring high-reliability contacts and modular flexibility for traditional, coplanar and direct mate orthogonal applications.



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.



Visit samtec.com to view our full line of interconnect solutions.

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