



INDUSTRIAL IOT

Samtec delivers Sudden Service® solutions that meet the smart sensor, data communications and scalability requirements of today's IIoT applications. Industry-leading expertise in rugged/power and high-performance interconnect systems, combined with on-going **Extended Life Product™** and **Severe Environment Testing** initiatives, enables quick-turn, cost-effective options for the performance, reliability and durability demands of IIoT applications. For more information, visit samtec.com/iiot or contact SIG@samtec.com.

Product Features & Benefits

- High-reliability / rugged contact systems
- Small form factors / ultra-high densities
- Signal integrity-optimized solutions
- Extended signal reach
- High vibration and high mating cycle systems

Design & Development Support

- Free online tools & resources: 3D Models, Prints, Picture Search & Solutionator® product builders
- Extensive testing initiatives that surpass typical industry standards and specifications
- Samtec cable assemblies also undergo cable flex and/or dynamic testing to prove consistent electrical stability in demanding applications
- Industry-leading component and system-level engineering expertise



Severe Environment Testing

SET is a Samtec initiative to test products beyond typical industry standards and specifications.

Products undergo additional testing to ensure they are *more than suitable* for military, space, automotive, industrial and other extreme applications.

For additional information and current test results, please visit samtec.com/SET or contact SET@samtec.com.



Extended Life Product™

E.L.P.™ products are tested to rigorous standards that evaluate contact resistance in simulated storage and field conditions. These include:

10 year Mixed Flowing Gas (MFG)

High Mating Cycles (250 to 2,500)

For complete details about the E.L.P.™ program and a full list of qualifying products and test results, please visit samtec.com/ELP or contact ASG@samtec.com.

SIGNAL INTEGRITY SUPPORT

Samtec is the industry leader in Signal Integrity. Offering unparalleled support for all aspects of high-performance system design, 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

Contact Samtec's Signal Integrity Group at SIG@samtec.com for assistance.

ONLINE TOOLS

Find, Design & Validate Your Solution

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



samtec.com/hsb2b-solutionator



samtec.com/cablebuilder

INTERCONNECT SOLUTIONS

Ultra Micro Interconnects

Ultra fine pitch connectors featuring low profile and ultra-slim bodies including hermaphroditic interfaces with high-retention Razor Beam™ contacts and EMI shielding option.



Micro Blade & Beam Systems

Ultra micro 0.40 mm or 0.50 mm pitch connectors with up to 160 total positions in a slim body design and low profile 2 mm to 6 mm stack heights for optimal space savings.



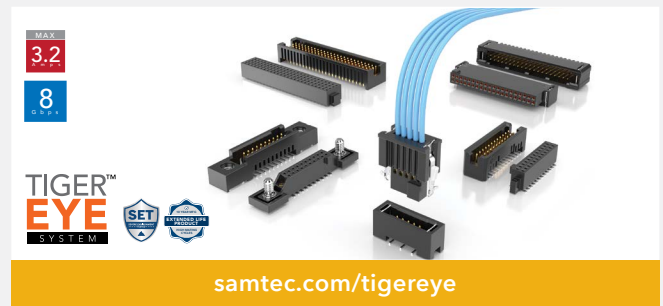
High-Reliability Tiger Eye™

Samtec's Tiger Eye™ connector systems are rated to 1,000+ cycles with a choice of pitches and terminations, rugged features, and mating discrete wire and IDC cable systems.



1.27 mm Pitch Tiger Eye™ Connectors

Features a high-reliability contact system with 6 to 12 mm stack heights, right-angle and rugged features, including screw down, locking clip, weld tab, shrouding and more.



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.



AcceleRate® Slim Cable Assembly

Slimmest assembly in the industry – 7.6 mm width – with up to 24 pairs and contacts directly soldered to the cable for improved signal integrity; PCIe® 6.0/CXL® 3.1 capable.



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

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