



AVIONICS

Avionics requires rugged, high-performance solutions to support not only the electrical aspects of the aircraft, but also the reliability of those systems to potentially protect and attack. Samtec Sudden Service® solutions include a range of micro rugged, RF, and high-speed interconnects suitable for harsh environments, including high-density arrays and cables. Samtec's on-going **Extended Life Product™**, **Severe Environment Testing**, and **Upscreen Testing** initiatives help ensure reliability for critical applications. For more information visit samtec.com/avionics or email Mil-AeroGroup@samtec.com.

Product Features & Benefits

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

Design & Development Support

- Industry-leading component and system-level engineering expertise
- 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



SEVERE ENVIRONMENT & UPSCREEN TESTING

Products are tested beyond typical standards to ensure reliability in harsh environments.

Upscreen testing provides assurance of board-to-board interconnects for mission critical applications (MIL-DTL-55302 & EIA-364). Contact MAP@samtec.com

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, including:

- 10-Year Mixed Flowing Gas (MFG)
- High Mating Cycles (250 to 2,500)
- Certain plating and/or contact options will apply

Visit samtec.com/elp or contact ASG@samtec.com.

SIGNAL INTEGRITY SUPPORT

Samtec is the industry leader in Signal Integrity with a mission 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.

ONLINE TOOLS

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



samtec.com/cablebuilder



samtec.com/optics-solutionator



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

Ultra Rugged I/O Systems

Ultra rugged cable systems with EMI shielding and Hyper Claw™ hyperboloid-type contacts for reliability and high mating cycles.



samtec.com/ursaio

Flyover® Cable Systems

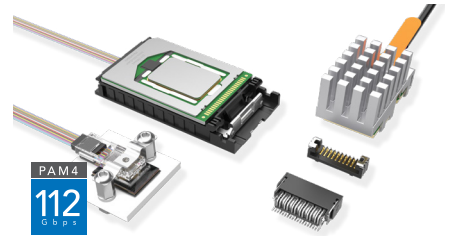
Extended signal reach and density for next gen speeds to 224 Gbps with rugged features in panel, mid-board and backplane applications.



samtec.com/flyover

Rugged Optical Transceivers

Future-proof and rad-hard solutions for reliable signal integrity at extended distances and temperatures in extreme and harsh environments.



samtec.com/optics

High-Reliability Tiger Eye™

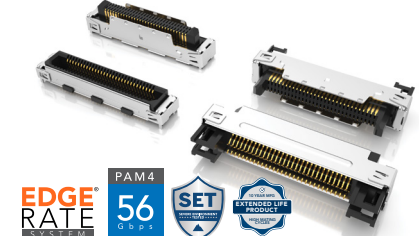
Rated to 1,000+ cycles with a choice of pitch, termination, rugged features, and mating discrete wire or IDC cable systems.



samtec.com/tigereye

Rugged SI Edge Rate® Strips

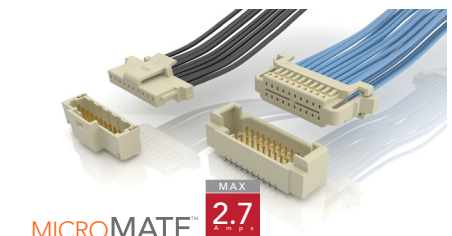
Signal integrity optimized, high-cycle contacts with a choice of pitch, stack height and ruggedizing features.



samtec.com/edgerate

Rugged Micro Cable System

Cable-to-cable, panel-to-board and cable-to-board solution in a small form factor with rugged latching and up to 2.7 Amps/pin (250 VAC).



samtec.com/micromate

Ultra Micro Interconnects

Ultra-fine pitch connectors with low profile and slim bodies including self-mating interfaces with high-retention Razor Beam™ contacts.



samtec.com/ultra-micro

High-Density Arrays

High-speed, high-density arrays with up to 560 I/Os in an open-pin-field design for maximum grounding and routing flexibility.



samtec.com/searay

Ground Plane Strips

High-speed, low profile strips with integral surface mount ground plane for improved signal integrity and power to 25 Amps.



samtec.com/qstrip

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

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