



# ROBOTICS APPLICATIONS

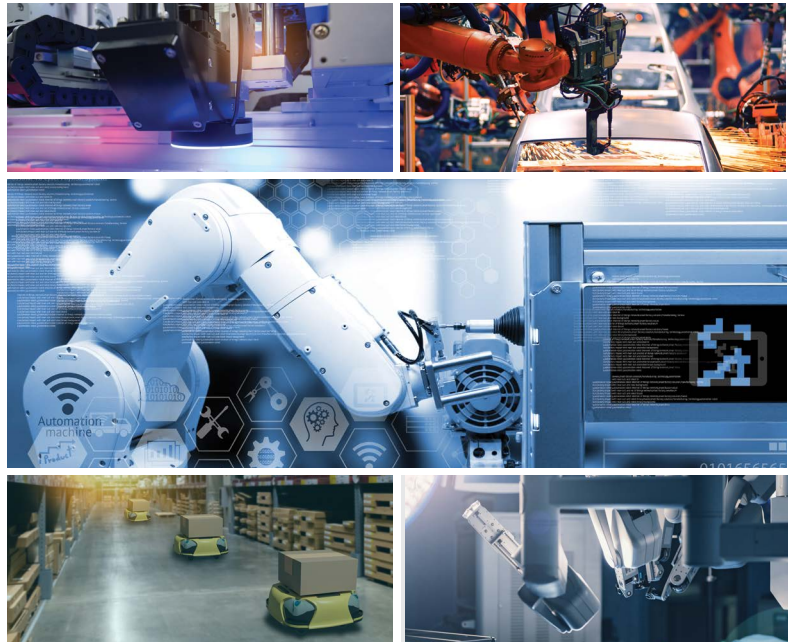
Samtec delivers Sudden Service® solutions that meet the sensor, computation and mobility requirements of today's advanced robotic applications. Industry-leading expertise in rugged/power and high-performance interconnect systems, combined with on-going **Extended Life Product™** and **Severe Environment Testing** initiatives, enables quick-turn, cost-effective options for the performance, reliability and durability demands of robotics applications. For more information, visit [samtec.com/industrial](http://samtec.com/industrial) or contact [MicroRuggedGroup@samtec.com](mailto:MicroRuggedGroup@samtec.com).

## Product Features & Benefits

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

## 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](http://samtec.com/SET) or contact [set@samtec.com](mailto: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)**

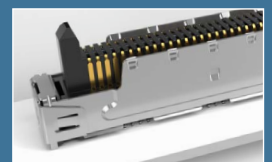
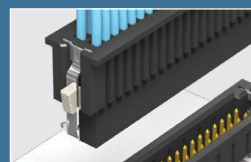
**High Mating Cycles (250 to 2,500)**

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

## RUGGEDIZING SOLUTIONS

Most Samtec interconnect systems are available with a variety of standard and optional rugged features to ensure quality and durability in any application.

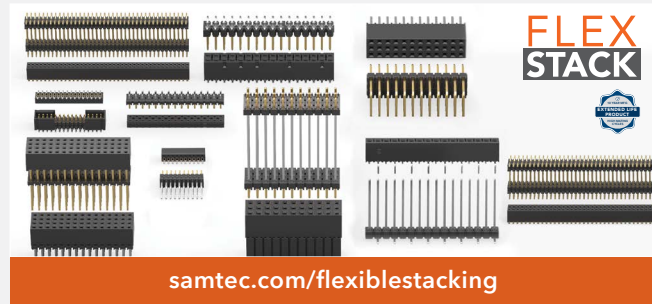
- Jack Screws
- Positive Latching
- Friction Locks
- Retention Pins
- Board Locks
- Weld Tabs
- Guide Posts
- Shielding
- Screw Downs
- Board Standoffs



# INTERCONNECT SOLUTIONS

## Flexible Stacking Systems

Samtec offers the industry's largest variety of board stacking interconnects, available in a variety of pitch, density, stack height, orientation, and contact system options.



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

## High-Reliability Tiger Eye™ Systems

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.



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

## High Power Systems

Rugged, high-power interconnect systems (up to 60 A) are available in small form factors with flexible designs.



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

## Discrete Wire Systems

High-cycle systems feature high-reliability contacts, a choice of pitches, rugged features and power designs.



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

## Sealed I/O Systems

IP67/IP68-rated systems provide reliability and flexibility, with a variety of terminations, shell types and sizes.



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

## High-Speed Board-to-Board

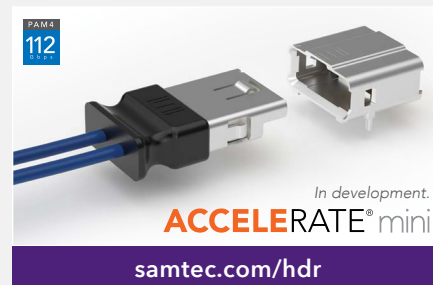
Ultra-dense, high-performance systems offer space-savings, along with contact durability and optimized signal integrity.



[samtec.com/hsb2b](https://samtec.com/hsb2b)

## High-Speed Cable Assemblies

Extreme density/performance systems are available in small form factors with rugged features and design flexibility.



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

## Custom & Modified Products

Samtec offers support for application-specific design needs, from Express Modifications to Engineered Customs.



[customasp@samtec.com](mailto:customasp@samtec.com)

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

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