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 or contact 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 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.

RUGGEDITIZING 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
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.

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.

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

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

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

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

High-Speed Cable Assemblies
Extreme density/performance systems are available in small form factors with rugged features and design flexibility.

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

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