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**Samtec Releases Ultra Micro Power Connectors with Incredible Design Flexibility**

Ultra micro 2.00 mm pitch high-power connectors for space savings

**New Albany, IN:** Samtec announces the release of mPOWER™ connectors – the ultimate micro high-power solution with incredible design flexibility for power-only or power/signal applications. This 2.00 mm pitch power connector system (UMPT/UMPS) features a small form factor while achieving up to 18 Amps per blade.

This micro high-power system not only saves board space, but also carries extremely high amperage per square inch. Compared to traditional power connectors that carry 20 Amps per blade in a large form factor, mPOWER™ passes 18 Amps per blade in about half the size, freeing up the board for other components or minimizing package size.

Due to the wide variety of stack heights available, mPOWER™ can be easily added to new or existing architectures alongside one of Samtec’s high-speed connector systems for a unique two-piece power and signal/ground solution. Stack heights range from 5 mm to 12 mm with up to 16 mm in development for increased compatibility with other high-speed connector systems. Compatible Samtec high-speed systems include: AcceleRate® HD, Edge Rate®, SEARAY™, SEARAY™ 0.80 mm, LP Array™, Q Strip®, Q2™, Tiger Eye™ and more.

Further design flexibility is available with a choice of 2, 3, 4 and 5 power blades (up to 10 blades in development). Matte Tin or 10 µ" Gold plating are standard with optional 30 µ" Gold plating to meet specific regulations. Additionally, the power blades have 2 stage mating, and can be selectively loaded to achieve any specific creepage and clearance requirements. Optional weld tabs provide increased stability on the board.

“I’m excited to add mPOWER™ to Samtec’s power portfolio – a product that will allow any signal connector to become a power/signal combo,” said Terry Emerson, micro rugged product manager at Samtec, Inc. “This product is a good fit for several industries and will aid with size minimization across all applications.”

A variety of other options are in development for mPOWER™ connectors including a right-angle version with 2 to 10 position counts, and a socket cable assembly to mate with both the vertical and right-angle terminal. The cable assembly will include latching for more rugged applications.

For more information, please visit [Samtec’s mPOWER™ Ultra Micro Power Connectors webpage](https://www.samtec.com/connectors/micro-pitch-board-to-board/rugged/ultra-micro-power).

**About Samtec, Inc.**

Founded in 1976, Samtec is a privately held, $822MM global manufacturer of a broad line of electronic interconnect solutions, including High-Speed Board-to-Board, High-Speed Cables, Mid-Board and Panel Optics, Precision RF, Flexible Stacking, and Micro/Rugged components and cables. Samtec Technology Centers are dedicated to developing and advancing technologies, strategies and products to optimize both the performance and cost of a system from the bare die to an interface 100 meters away, and all interconnect points in between. With 40+ international locations and products sold in more than 125 different countries, Samtec’s global presence enables its unmatched customer service. For more information, please visit <http://www.samtec.com>.

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