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New Radiation-Tolerant, High-Reliability Communication Interface Solution for Space Applications

Microchip’s ATA6571RT CAN FD transceiver supports data rates up to 5 Mbps

CHANDLER, Ariz., Nov. 04, 2025 (GLOBE NEWSWIRE) -- Communication interfaces are essential for space applications as they ensure reliable and efficient data transmission to enable real-time control, system integration and enhanced error detection. They support scalable designs and contribute to the redundancy and fault tolerance necessary for the successful execution of space missions. Microchip Technology **(Nasdaq: MCHP)** today announces the release of its **Radiation-Tolerant (RT) ATA6571RT CAN FD Transceiver**, a high-reliability communication solution designed specifically for space applications. This advanced transceiver supports flexible data rates up to 5 Mbps, making it well-suited for space systems such as satellites and spacecraft that require robust and efficient data transmission.

The ATA6571RT transceiver offers significant advantages over traditional CAN solutions, which are typically limited to a 1 Mbps communication bandwidth. With the ability to handle bit rates up to 5 Mbps and support for larger payloads of up to 64 bytes per frame, the ATA6571RT enhances efficiency and reduces bus load. Backward compatible with classic CAN, the ATA6571RT offers a smooth transition for existing systems.

Additionally, its Cyclic Redundancy Check (CRC) mechanism provides enhanced error detection, increasing reliability for safety-critical applications. The ATA6571RT is designed for space applications including platform data handling, propulsion system control, sensor bus control, robotics, on-board computers for nanosatellites and more. For easy integration at the PCB level, this RT device remains pin-distribution compatible with the original Commercial-Off-The-Shelf (COTS) plastic or ceramic versions.

"The ATA6571RT transceiver offers a cost-effective, size-optimized and power-efficient device designed to meet the stringent demands of space environments,” said Leon Gross, corporate vice president of Microchip’s aerospace and defense business. “As a leading supplier to the aerospace and defense market, Microchip is proud of its space heritage with products embedded in New Space and deep space missions.”

The ATA6571RT transceiver is designed to withstand harsh space conditions with its resistance to Single-Event Effects (SEE) and Total Ionizing Dose (TID). It also features low power management with local and remote wake-up support, as well as short-circuit and overtemperature protection.

The addition of the ATA6571RT CAN FD transceiver further strengthens Microchip's commitment to delivering reliable, secure and high-performance solutions for demanding

environments. The company's comprehensive portfolio of communication interface solutions for aerospace and defense includes radiation-tolerant and radiation-hardened interfaces such as Ethernet, MIL-STD-1553 and SpaceWire.

For more information about the ATA6571RT transceiver and Microchip's range of communication interface solutions, please visit the **web page**.

Pricing and Availability

The ATA6571RT CAN FD Transceiver is available for $210. each in 10-unit quantities. For additional information and to purchase, contact a Microchip sales representative, authorized worldwide distributor or visit Microchip's Purchasing and Client Services website, **www.microchipdirect.com**.

Resources

High-res images available through Flickr or editorial contact (feel free to publish):

- Application image: **www.flickr.com/photos/microchiptechnology/54780910086/sizes/l**

About Microchip Technology:
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Editorial Contact:
Kim Dutton
480-792-4386
kim.dutton@microchip.com

Reader Inquiries:
1-888-624-7435

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