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CAN Flexible Data-Rate Transceiver Family From Microchip Meets and Exceeds Global Automotive Requirements

Cost-competitive MCP2561/2FD Transceivers Withstand Harsh Conditions While Increasing Maximum Data-Rate Capability and Meeting Lower Power Budgets

CHANDLER, Ariz., March 23, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced a new family of CAN FD (Flexible Data-Rate) transceivers, the **MCP2561/2FD**. As an interface between a CAN (Controller Area Network) protocol controller and the physical two-wire CAN bus, these transceivers can serve both the CAN and CAN FD protocols. This product family not only helps automotive and industrial manufacturers with today's CAN communication needs, but also provides a path for the newer CAN FD networks that are increasingly in demand.

To learn more about Microchip's CAN transceivers visit **http://www.microchip.com/CAN-Transceivers-032315a**.

In-vehicle networking growth continues to be driven by the need for electronic monitoring and control. As application features in power train, body and convenience, diagnostics and safety increase, more Electronic Control Units (ECUs) are being added to existing CAN buses, causing automotive OEMs to become bandwidth limited. In addition, the end-of-line programming time for ECUs is on the rise due to more complex application programs and calibration, which raises production line costs. The emerging CAN FD bus protocol solves these issues by increasing the maximum data rate while expanding the data field from 8 data bytes up to 64 data bytes.

With their robustness and industry-leading features, including data rates of up to 8 Mb/s, Microchip's MCP2561/2FD transceivers enable customers to implement and realize the

benefits of CAN FD. These new transceivers have one of the industry's lowest standby current consumption (<5 microAmps typical), helping meet ECU low-power budget requirements. Additionally, these devices support operation in the -40C to 150C temperature range, enabling usage in harsh environments.

"Microchip has been involved since the beginning of CAN FD, planning and developing products to help serve the overall system needs," said Bryan J. Liddiard, marketing vice president of Microchip's Analog and Interface Products Division. "Our transceivers are defined and developed with a global perspective, allowing our customers to sell their end products across all regions of the world. This new family achieves unprecedented CAN FD performance levels while maintaining industry-leading robustness and overall quality."

The new family of MCP2561/2FD CAN FD transceivers is available in 8-pin PDIP, SOIC and 3x3 mm DFN (leadless) packages, providing additional design flexibility for space-limited applications. The family also provides two options. The MCP2561FD comes in an 8-pin package and features a SPLIT pin. This SPLIT pin helps to stabilize the common mode in biased split-termination schemes. The MCP2562FD is available in an 8-pin package and features a Vio pin. This Vio pin can be tied to a secondary supply in order to internally level shift the digital I/Os for easy microcontroller interfacing. This is beneficial when a system is using a microcontroller at a Vdd less than 5V (for example, 1.8V or 3.3V), and eliminates the need for an external level translator, decreasing system cost and complexity.

CAN FD Plug Fest

These new Microchip MCP2561/2FD transceivers will be used to test CAN FD network designs at a **Plug Fest** organized by the CAN in Automation (CiA®) Interest Group, on Tuesday March 24th in Detroit, Michigan. Both **Kvaser**, a supplier of advanced CAN solutions to engineers designing and deploying systems across a wide range of industries, and **Intrepid Control Systems** will use Microchip's transceivers on their respective CAN FD boards at this event. Intrepid Control Systems supplies the neoVI, ValueCAN and WaveBPS CAN testing products to all major automotive OEMs.

Pricing & Availability

The MCP2561FD and MCP2562FD transceivers are both available now for sampling and volume production in 8-pin PDIP, SOIC and 3x3 mm DFN packages, starting at $0.69 each, in 5,000-unit quantities. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at **http://www.microchip.com/MCP2561FD-032315a**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

Resources

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About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, analog and Flash-IP solutions, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **http://www.microchip.com/Homepage-032315a.**

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Tags / Keywords: Controller Area Network, CAN, CAN FD, CAN Flexible Data Rate, Automotive, ISO11898, ECU, In Vehicle Networking, Bus Systems, LIN, MOST, Flexray

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