December 8, 2015

Microchip Ethernet PHY Transceiver Enables Unshielded Twisted Pair Cables While Meeting Automotive and Industrial EMC Requirements

New KSZ8061 Quiet-WIRE® Technology 10/100BASE-TX Ethernet Physical-Layer Transceiver Family Provides Reduced Line Emissions and Superior Receiver Immunity

CHANDLER, Ariz., Dec. 8, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the KSZ8061 single-chip 10BASE-T/100BASE-TX automotive- and industrial-grade **Ethernet physical-layer transceiver**, which is designed for data communication over low-cost Unshielded Twisted Pair (UTP) cables. It is the first of a new family based on the patented and programmable **Quiet-WIRE®** enhanced EMC technology, providing reduced line emissions and superior receiver immunity performance. System reliability is also enhanced with Microchip's proven LinkMD+® advanced cable diagnostics, along with an embedded signal-quality indicator for the dynamic monitoring of link error margins.

To learn more about Microchip's portfolio of Ethernet physical-layer transceivers, visit **http://www.microchip.com/Ethernet-PHYs-111715a**.

For energy-efficient applications, Microchip's integrated EtherGREEN™ technology includes a unique Ultra Deep Sleep mode with signal-detect wakeup, which lowers standby power consumption to the sub-microampere range.

"The KSZ8061 provides uniquely low emissions and high immunity over unshielded cabling, for automotive and industrial Ethernet network connectivity," said Mitch Obolsky, vice president of Microchip's USB and Networking Group. "The result is a significant reduction in

BOM costs, versus expensive shielded cables, while meeting the stringent EMC specifications for these applications. Additionally, the established Ethernet ecosystem provides a low total cost of ownership and multifaceted benefits."

With fast boot and linkup in less than 20 mS, the KSZ8061 is ideal for applications where startup time is critical, such as automotive rearview cameras. The KSZ8061 family is available with an extended temperature range of -40 to +105 degrees Celsius for harsh-environment applications, including industrial sensor networks, robotics, building automation and avionics. This Ethernet PHY transceiver family provides support for both the MII and RMII processor interfaces, for easy integration with numerous processors, MCUs and SoCs.

Development Support
Microchip also announced a new evaluation board, to enable functional and performance testing of the KSZ8061. The **KSZ8061MNX Evaluation Board** (part # KSZ8061MNX-EVAL) is available now for pre-orders, with delivery in January, for $115.00.

Pricing and Availability
The KSZ8061 is available now for sampling, at $1.16 each in 10,000-unit quantities for Industrial grade. Volume-production availability is expected next quarter. The compact packaging options include 32-pin, 5x5 mm and 48-pin, 6x6 mm QFN packages. Samples can be ordered online at **http://www.microchip.com/KSZ8061-111715a**. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit **http://www.microchip.com/Ethernet-PHYs-111715a**.

Resources
High-res Images Available Through Flickr or Editorial Contact (feel free to publish):

- Chip Graphic: **http://www.microchip.com/Chip-Graphic-111715a**
- Block Diagram: **http://www.microchip.com/Block-Diagram-111715a**
- Evaluation Board Photo: **http://www.microchip.com/Board-Photo-111715a**

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About Microchip Technology
Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, mixed-signal, 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-111715a**.

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Tags / Keywords: Ethernet PHY Transceiver, Ethernet PHY TX, Automotive Ethernet Transceiver, Industrial Ethernet Transceiver, Unshielded Twisted Pair Transceiver, UTP

Transceiver, Low EMC Emissions, High EMC Immunity

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