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New MOST® Technology Intelligent Network Interface Controller Enables Daisy-Chain Communications in Automotive Applications

MOST150 Dual Network Port INIC OS81119 Reduces Automotive Wiring Requirements and Component Count for Lower System Cost

CHANDLER, Ariz., June 20, 2017 (GLOBE NEWSWIRE) -- The newest MOST150 Intelligent Network Interface Controller (INIC) from Microchip Technology Inc. (NASDAQ:MCHP) enables automotive manufacturers and tier one suppliers to incorporate Media Oriented Systems Transport (MOST®) networks in a daisy-chain configuration on coaxial physical layer with the support of full-duplex communication, in addition to a ring topology. With a full-duplex daisy-chained network, a single cable segment is sufficient to connect two adjacent devices in the network, reducing cables and connectors for the back channel on each network connection. It also eliminates the return wire connecting the last node of the network to the first. This reduces wiring and component count resulting in lower system costs as well as potential weight savings that can impact Corporate Average Fuel Economy (CAFE) goals and other fuel efficiency regulations.

Using Microchip's OS81119 INIC allows customers to simplify the network architecture of automotive in-vehicle infotainment systems by using integrated coaxial physical layer (cPHY), optical physical layer (oPHY), daisy-chain topologies or creative hybrid combinations. Customers currently using MOST150 systems can also rapidly migrate to new topologies or daisy-chain additional nodes with little hardware and software redesign.

"This is the first time customers can create a MOST150 network using a daisy-chain configuration," said Dan Termer, vice president of Microchip's Automotive Information Systems business unit. "MOST networks are a proven standard used in more than 200 car models across all major OEMs. Continuous innovation, as shown with this new device, now makes MOST technology even more cost-effective."

Besides an integrated cPHY, a USB 2.0 high-speed user interface is also part of the OS81119 INIC. This integration further reduces system component count, driving down overall costs. Time to market can be improved when using the USB standard and corresponding standardized MOST Linux® Driver. Additionally, utilizing an open-source Linux operating system and driver for the OS81119 helps customers reduce costs. By using the standard Application Programming Interfaces (APIs), customers can also minimize the risk of application issues.

MOST technology is the choice of many automobile manufacturers and tier one suppliers for in-vehicle networking. It specifically targets infotainment and telematics applications such as

smart antennas, head units, amplifiers, digital clusters, rear seat entertainment, Advanced Driver-Assistance Systems (ADAS), driver/passenger information systems and public transportation infotainment and information systems. For more information on this device see: **www.microchip.com/OS81119**

Development Support
The OS81119 is supported by the following tools and software:

- MOST NetServices V3.2.x
- MOST Linux Driver
- Microchip's Unified Centralized Network Stack (**UNICENS**)
- K2L OS81119 USB Application Board
- K2L **MOST150 Slim Board Family**
- K2L OptoLyzer® MOCCA compact 150c and 150o
- K2L INIC Explorer and Microchip Automotive Target Manager (MATM) with OS81119 configuration files and software
- K2L MediaLB® bus analyzer

Pricing and Availability
The OS81119 is offered in a QFN88 package. Devices are available today in volume production starting at $6.50 each in 10,000 unit quantities. To purchase products mentioned in this press release or obtain additional information, contact any Microchip sales representative or authorized worldwide distributor.

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

- Tool Photo: **www.flickr.com/photos/microchiptechnology/34356872273/sizes/l**
- Chip Image: **www.flickr.com/photos/microchiptechnology/34944882700/sizes/l**
- Block Diagram: **www.flickr.com/photos/microchiptechnology/35202657721/sizes/l**

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 **www.microchip.com**.

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