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Microchip's New MOST150 Coaxial Transceiver Enables Powerful, Robust and Cost-Efficient Automotive Infotainment Networks Based on Coaxial Cables

Fully Compliant MOST® Infotainment Network Architecture From Microchip Features a Robust Physical Layer and Proven Electromagnetic Compatibility Behavior

CHANDLER, Ariz., Sept. 1, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the industry's first MOST150 coaxial transceiver. Extending the usage of coaxial cabling to powerful automotive infotainment networks based on the latest MOST150 standard, the newly introduced **OS82150** integrates a coaxial cable driver and coaxial cable receiver into a small-footprint, 4x4 mm QFN package.

To learn more about MOST® technology, the de-facto networking standard for automotive infotainment, please visit **http://www.microchip.com/MOST-090115a**.

"The OS82150 coaxial transceiver broadens Microchip's portfolio of MOST150 network solutions," said Dan Termer, vice president of Microchip's Automotive Information Systems Division. "It offers an exciting new option for customers to implement efficient infotainment networks, and to easily migrate from optical to coaxial cabling while protecting their existing investment in MOST150 technology. The design-in of the OS82150 is straightforward and total system costs are optimized."

This simple solution reflects today's market demands for powerful automotive infotainment systems that include a navigation unit, antenna module, amplifier, tuner, Blu-ray™ player, rear-seat entertainment, instrument cluster, head-unit display, camera and more. MOST networking technology provides the means to distribute these multimedia entertainment functions among the various control devices inside the car. With an integrated coaxial-cable receiver featuring an equalizing function, the OS82150 coaxial transceiver assures robust and reliable network connectivity by providing automatic adaptation to various cable types and continuous compensation for initial and long-term cable loss effects. Designed for automotive-grade electromagnetic compatibility (EMC), the device also integrates functions to minimize electromagnetic emissions and handle automotive electromagnetic interference (EMI) levels, facilitating smooth installations of MOST150 networks into vehicles.

By seamlessly interfacing with MOST150 Intelligent Network Interface Controllers (INICs), such as Microchip's OS81110 and OS81118BF, the OS82150 can be easily integrated into existing designs. Additionally, the signal and timing specifications of the OS82150 are compliant with the MOST Physical Layer Specification, ensuring interoperability.

Additional features of the OS82150 coaxial transceiver include a low-power sleep mode with activity detection for wake-on-signal functionality, to reduce power consumption and facilitate the power management of electronic control units (ECUs) in the vehicle. Support for dual-simplex transmission allows for a ring topology that enables expandability and scalability of the network. A single, 3.3 volt power supply further eases design-in, as only a single voltage level is needed.

Development Support
To further enable development and speed time to market, the OS82150 is supported by K2L's **OS81110 cPhy Evaluation Board** and K2L's **OptoLyzer® MOCCA Bundles**. The OS81110 cPhy Evaluation Board encapsulates an entire MOST150 network device. An integrated OS85650 I/O Companion Chip (IOC) provides I/O port expansion for additional application flexibility. The OptoLyzer MOCCA Bundle combines the capabilities of the popular OptoLyzer Suite graphical user interface with the advantages of the OptoLyzer MOCCA multi-bus hardware interface.

Pricing & Availability
The OS82150 is offered in a 4x4 mm QFN package and is available for sampling and volume production, with pricing of less than $3 in low volumes. For additional information, contact any Microchip sales representative or visit Microchip's Web site at **http://www.microchip.com/OS82150-090115a**. To purchase products mentioned in this press release, contact Microchip's sales team.

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

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