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Microchip Releases Next-Generation Bluetooth® Low Energy Solutions

Complete Bluetooth 4.2 Compliant Silicon, Modules and Software Provide Internet of Things Developers Ultimate Design Flexibility for Cost Savings

CHANDLER, Ariz., Nov. 2, 2015 /PRNewswire/ -- Microchip Technology Inc.(NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced its next-generation **Bluetooth® Low Energy** (LE) solutions. Qualified to the latest Bluetooth 4.2 standard, the **IS1870** and **IS1871** Bluetooth LE RF ICs, along with the **BM70** module, expand Microchip's existing Bluetooth portfolio and carry both worldwide regulatory and Bluetooth Special Interest Group (SIG) certifications. These new offerings are ideal for Internet of Things and Bluetooth Beacon applications, and make it easy for designers to take advantage of the low power consumption and simplicity of Bluetooth LE connectivity.

For more information on Microchip's broad range of Bluetooth certified solutions, please visit: **http://www.microchip.com/Bluetooth-102015a**.

Microchip's new Bluetooth LE devices include an integrated, certified Bluetooth 4.2 firmware stack. Developers can expect up to 2.5 times faster data transfer speeds and greater connection security, with government-grade (FIPS-based) secure connection support. Data is sent and received over the Bluetooth link using Transparent UART mode, making it easy to integrate with any processor or the hundreds of Microchip's PIC® microcontrollers that have a UART interface. The module also supports standalone "hostless" operation for beacon applications.

"The IS1870 and IS1871 ICs bring cutting-edge Bluetooth 4.2 performance to our chip-down customers, and our BM70 module enables customers to avoid the expense and product delays caused by regulatory certifications," said Sumit Mitra, vice president of Microchip's Wireless Solutions Group. "By offering one-stop shopping, including our own Bluetooth stack, customers gain proven interoperability and the convenience of a single point of contact for support from Microchip's worldwide staff of wireless specialists."

The optimized power profile of these new devices minimizes current consumption for extended battery life, in compact form factors as small as 4x4 mm for the RF ICs and 15x12 mm for the module. The module options include RF regulatory certifications, or non-certified (unshielded/antenna-less) for smaller and more remote antenna designs that will undergo end-product emission certifications.

Microchip's Bluetooth LE modules include all of the hardware, software and certifications that designers need. Developers can leverage Microchip's Bluetooth Qualified Design ID (QDID) to easily list their products with the Bluetooth SIG. Embedded Bluetooth stack profiles include GAP, GATT, ATT, SMP and L2CAP, as well as proprietary services for

Transparent UART. All modules are configurable using Microchip's Windows® OS-based tools.

Development Support

Microchip also announced today the BM70 Bluetooth Low Energy PICtail™/PICtail Plus daughter board. This new tool enables code development via USB interface to a PC, or by connecting to Microchip's existing microcontroller development boards, such as the Explorer 16, PIC18 Explorer and PIC32 I/O Expansion Board. The **BM-70-PICTAIL** is available now for $89.99 each.

Pricing and Availability

The IS1870 Bluetooth LE RF IC is available today in a 6x6 mm, 48-pin QFN package, for $1.79 each in 1,000 unit quantities. The IS1871 is expected to be available in November, in a 4x4 mm, 32-pin QFN package for $1.76 each in 1,000 unit quantities. The 30-pin BM70 Bluetooth LE modules are available today, with or without built-in PCB antennas, starting at $4.99 each in 1,000-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/Bluetooth-102015a**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

Resources

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

- Chip & Module Graphic: **http://www.microchip.com/Graphic-102015a**
- Chip Block Diagram: **http://www.microchip.com/Chip-Diagram-102015a**
- Module Block Diagram: **http://www.microchip.com/Module-Diagram-102015a**
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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-102015a.**

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