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# Microchip Introduces World's First Programmable USB2 Controller Hubs; Adds Simultaneous Support for USB2 and HSIC, Low-Power Modes

*Seven New ICs Also Provide Advanced Battery Charging and I/O Bridging to Multiple Serial Protocols for Designers of PCs, Mobile Devices, Docking Stations and Monitors*

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the expansion of the **USB2 Controller Hub** (UCH2) portfolio it gained from the recent SMSC acquisition. The seven new UCH2 ICs across three families are the world's first to provide programmability, enabling the developers of PCs and mobile devices to configure their designs without external memory. Additionally, these are Microchip's first UCH2s to support both USB2 and USB High Speed Interchip (HSIC) connectivity, maximum battery life via low-power modes such as Link Power Management (LPM), and the ability to replace wall chargers with advanced battery charging modes, such as BC1.2, Apple®, SE1 and China charging. For applications that need to communicate over multiple protocols, these UCH2s feature direct I/O bridging to I²C™, SPI, UART and general-purpose I/O. They also have the flexibility to support the behaviors of multiple operating systems, such as vendor-specific messaging and FlexConnect for simple port reversals.

While the PC market is converting to USB3, most market forecasts predict that USB2 will remain predominant in mobile devices through at least 2015. This continued use of both USB3 and USB2 challenges the designers of PCs and mobile devices to ensure interoperability while providing new features and maximum battery life. Microchip's seven new UCH2s across three families address these needs for both PC and mobile manufacturers. Whereas competing USB2 Controller Hubs only offer limited battery charging and require external memory for configuration, Microchip's new UCH2s integrate "Quad Page" configuration OTP Flash memory, which reserves space for interoperability and other customizations by the designer, including four separate configuration opportunities. Additionally, Microchip makes it easy to generate configuration settings and program the OTP memory, via its new **ProTouch Configuration Editor** software tool, also announced today.

"The recent acquisition of SMSC positions Microchip as a leader in USB architectures, and we continue to invest heavily in both USB2 and USB3 solutions for the marketplace," said Mitch Obolsky, vice president of Microchip's USB and Networking Group. "Our three new families of USB2 solutions solve major problems for the OEMs of both PCs and tablets. These manufacturers face a new world where there are multiple operating systems in play and an intense focus on low power for extended battery life. Programmability and low power have been benchmarks of Microchip's leadership in the microcontroller space, and we are continuing that legacy with our USB Controller Hub architectures."

**Development Support**

The aforementioned ProTouch Configuration Editor software tool is available today via a free download from **http://www.microchip.com/get/2M4E**. It is bundled with the ProLink programming software. Also being announced today is the **USB2534 Eval Board** (part # EVB-USB2534), which is available now for $399 each via Microchip's sales representatives. This board supports the development of USB charging designs using the new three-member USB253X UCH2 family for mainstream USB2 applications.

**Pricing & Availability**

The USB-IF Certified USB2532-1080AEN, USB2533-1080AEN and USB2534-1080AEN family of UCH2s for mainstream USB applications are available today for sampling and volume production in 36-pin QFN packages, starting at $1.99 each in 10,000-unit quantities. The USB4624-1080HN and USB4604-1080HN family of UCH2s for HSIC connectivity and I/O bridging USB applications are available today for sampling and volume production in 48-pin QFN packages, starting at $2.89 each in 10,000-unit quantities. The USB3813-1080XY and USB3613-1080XY family of UCH2s for mobile USB applications are available today for sampling, and volume production is expected in July, in 30-pin WLCSP packages, for $2.73 each in 10,000-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/get/6FJ3**. 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 Graphic: **http://www.microchip.com/get/7G11**
- Block Diagram: **http://www.microchip.com/get/QCU0**
- Eval Board Photo: **http://www.microchip.com/get/TC9X**
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Microchip Technology Inc.
**Editorial Contact:**
Eric Lawson, 480-792-7182
**eric.lawson@microchip.com**
or
**Reader Inquiries:**
1-888-624-7435
**http://www.microchip.com/get/6FJ3**

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