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Microchip Debuts Advanced Motor Control Tool with Auto Tuning and Self-Commissioning Capability

motorBench™ Development Suite Available Now with Initial Board and Motor

CHANDLER, Ariz., March 01, 2017 (GLOBE NEWSWIRE) -- An advanced motor control software plug-in for Microchip's **MPLAB® X Integrated Development Environment (IDE)** with auto tuning and self-commissioning capability is now available from Microchip Technology Inc. (NASDAQ:MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions. The plug-in, called motorBench™ Development Suite, is a Graphical User Interface (GUI)-based tool with automatic tuning of feedback control gains and offline accurate measurement of critical motor parameters such as resistance, inductances and the back electromagnetic force (EMF) constant.

This plug-in collects all the information relevant to the motor control system and automatically tunes the control algorithm gains. The software then uses this information to generate MPLAB X IDE project code ready to run on Microchip's dsPIC33EP family of Digital Signal Controllers (DSCs). The generated code can then be reviewed and edited as needed and flashed as motor control firmware.

"Developing solutions with Permanent Magnet Synchronous Motors (PMSM), including tuning the control loops for speed and torque, can be time consuming and complicated to get the motor spinning reliably," said Joe Thomsen, vice president of Microchip's MCU16 business unit. "With the motorBench Development Suite this process is automated so customers can focus on other parts of firmware development and speed their time to market. This initial launch is just the start of what we expect will be a game changer for our motor control customers."

The motorBench Development Suite is currently available using Microchip's dsPICDEM™ MCLV-2 Development Board (Part # **DM330021-2**) with a dsPIC33EP256MC506 External Op Amp Motor Control Plug-in-Module (PIM) (Part # **MA330031-2**) and a 24V 3-phase Brushless DC Motor with Encoder (Part # **AC300022**), all available today through microchipDIRECT or one of Microchip's authorized distribution partners.

For more information about Microchip's motorBench Development Suite visit: **www.microchip.com/motorBench.**

Pricing and Availability
The motorBench Development Suite is a free software plug-in for MPLAB X IDE. The dsPICDEM™ MCLV-2 Development Board (Part # **DM330021-2**), motor control PIM (Part # **MA330031-2**), and a 24V 3-phase Brushless DC Motor with Encoder (Part # **AC300022**) are available today for $199.99, $25.00 and $160.00, respectively. For additional information,

contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's website. To purchase the boards and motor that work with motorBench Development Suite, go to the new, easier-to-navigate and mobile-optimized **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

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

- Motor Graphic: **www.flickr.com/photos/microchiptechnology/32822974425/sizes/o/**
- dsPICDEM Board: **www.flickr.com/photos/microchiptechnology/32750872656/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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