

# PRESS RELEASE

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## **Soft Servo Systems, Inc. Announces WMX, versatile, Windows-based General Motion Controller on EtherCAT**

WALTHAM, MA – December 16, 2013– Soft Servo Systems, Inc. would like to announce the WMX, a new type of general motion controller with up to 64 axes of high-end motion control functions on the EtherCAT platform. The WMX comes with Windows Class Library that supports up to 256 threads and includes over 200 API functions including EtherCAT network management. The Class Library allows the users to develop a highly original, customized motion control solution on Windows for their own motion control application.

This innovative software can control up to 64 axes with advanced control functions and up to 64 multi-channels. Motion functions include Jog, PTP, various types of interpolations, listed motion, event-interrupt control, and buffered API execution, just to name a few. Override functions are able to change target position, velocity and even profile parameters dynamically during the motion. Motion profiles include jerk-free and jerk-limited profiles.

The WMX is equipped with its original EtherCAT master stack. Major EtherCAT functions include CoE, FoE, DC Sync, Line/Star/Ring Topologies, Hot Connect, and Network Management API to monitor and control slaves. Developers can embed their motion control with Visual Studio 2005 or later (C/C++) and Microsoft.NET framework 2.0 or later.

"We're very excited about the WMX," says Boo-Ho Yang, CEO and President of Soft Servo Systems, Inc. "The WMX's motion functions are superior to our competitor's products in the market. Unlike our competitors' products, the WMX, all-software product, will work on commercially available PCs, that makes the WMX a truly open-architecture solution for Windows users. Also, instead of proprietary motion programming or PLC languages, the WMX's Class Library offers programming in open standard languages like C/C++ and .NET, which are superior by virtue of their easy programming."

The WMX is ideal for motion control applications in the semiconductor equipment, flat panel equipment, chip moulder, LED bonder, packaging, materials handling, pick and place, converting, food processing, laser cutting/engraving, plasma cutting, and wood-working.

As it can run as an EtherCAT master on a PC with a LAN (Ethernet) port, no specialized interface board is needed. This makes it a very cost-efficient and economical solution, and makes motion control truly PC-based, compatible with windows XP and Windows 7 platform. WMX includes the original EtherCAT Master stack and a license of RTX, a Windows' real-time extension tool, supporting realtime motion control with synchronous communication cycle as fast as 0.5ms without any additional hardware.

Soft Servo Systems has long been a leading provider of all-software, truly PC-based motion control and CNC solutions for the machine tool and automation industries. With their patented "soft motion" technology, a single PC performs all servo control, including feedback loops and NC path and profile

generation, as well as providing the user interface, data processing, network communications, file management, and more.

**About Soft Servo Systems, Inc.**

Soft Servo Systems, Inc., founded by MIT professionals in 1998, is the leading provider of PC-based motion control products that use a single host CPU to perform all real-time control operations.

Soft Servo Systems' product lines include CNC and general motion controllers with a wide variety of servo communications platforms (EtherCAT, MECHATROLINK™ II, MECHATROLINK™ III, Panasonic Realtime Express™, and VersioBus™ fiber-optic servo communications for analog-interface servo drives).

All of Soft Servo Systems' products include an industry standard soft PLC and a Windows-based GUI application in a single package. A versatile motion library (APIs) is available, for easy development of complex motion/machine control applications in the .NET environment for Windows. More information is available at [www.softservo.com](http://www.softservo.com).

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