High-Performance Universal Motion Controller/Drivers

Newport Corporation, a worldwide leader in laser and photonic solutions that Make, Manage and Measure Light®, introduces the ultra high performance universal motion controller/driver, the XPS-Qx. The new, easy to use controller series is available in 2-, 4-, 6- and 8-axis configurations and comes with new firmware and dual core processor.

According to Beda Espinoza, Sr. Manager for Newport's Motion Products, "The powerful new XPS-Qx version is based on the QNX RTOS, a robust and proven operating system platform. The XPS-Qx will replace the XPS-Cx controllers to offer higher performance, better stability, and a faster boot cycle. The intuitive web interface remains unchanged, along with the feature-rich firmware to which XPS-Cx users have grown accustomed."

The integrated motion controller/driver offers high speed communication through 10/100 Base-T Ethernet, provides superior trajectory accuracy, and powerful programming capabilities. From simple motion sequences to complex synchronization, the XPS-Qx is ideal for demanding applications that require precision control. Multiple I/O capabilities consist of 4 user-definable analog inputs, 4 user-definable analog outputs, and 30 TTL inputs and outputs. Other features include high-speed-data acquisition at up to 10 KHz rate and event triggering with 50ns latency.

Proprietary universal driver modules allow the XPS to drive up to 8 axes of any Newport actuator, linear, rotary, or nanopositioning stage. Driver cards are purchased separately and are inserted into the XPS-Qx to drive a variety of motors, including stepper, DC brush, rotary or linear DC brushless, voice coil, or piezoelectric. The XPS-Qx is compatible with Newport's NSTRUCT™ instrument manager software, and with the Experimental Physics and Industrial Control System

(EPICS).

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