For Immediate Release
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NAI Adds High-Performance Motor Controller Module for Critical, Rugged, Motion Applications

Integrating Motor Controller with High Density Multi-function I/O—NAI Delivers Single Board Solutions with Full Motion Control Capabilities

BOHEMIA, NY, March 13, 2012-- North Atlantic Industries (NAI) adds new 3-axis motion control module (M*) based on the Magellan MC58000 Series Processor—adding motor control capability to multi-function board platforms resulting in a fully integrated servo motor control embedded card for use in on-the-move, feedback, robotic/autonomous, targeting, positioning and manufacturing process control systems.

The M* module supports DC brush, brushless DC and step motors using both pulse and direction and microstepping output formats and can be configured to control up to three motors simultaneously, for full three-axis motion control. The M* module may be used with DC-brush motors or brushless DC motors having external commutation; two-phase or three-phase sinusoidal commutated motor signals in PWM brushless servomotors.

Features include:

- Programmable control of DC-brushed, brushless, stepper or PWM motor systems
- Integrated motor control feedback for either hall sensor, A-QUAD-B or resolver
- Integrated I/O for motor limits, home, fault and motor enable sense/control
- 12-channel A/Ds with 10-ch synchronized/simultaneous FIFO data buffer and triggering option
- 3-channel current measurement
- 6 (3x2) D/A or PWM (3x4); (A,B,C and Dir) control signal outputs
- Optional Resolver/Synchro feedback for sinusoidal commutation
- Optional reference supply for Synchro/Resolver
- Background (automatic/online) calibration and built-in-test

"The M* module delivers the ultimate in scalable, 3-axis motion control combining the power of the Magellan Motion Control Processor with customer programmable FPGA, DSP and analog functions," said Lino Massafra, VP of Sales & Marketing. "When combined with NAI's extensive PWM, Power Amp and Sensing functions, the customer has an almost unlimited ability to perform any possible Motor Control function— using a single embedded solution. The addition of the motor controller function, coupled with existing PWM support, strengthens NAI's already extensive portfolio of high density, intelligent I/O COTS solutions."

The M* module is available on NAI VME 64D3, 64DP3 and 64E3 or cPCI 75D4 multi-function platforms.

North Atlantic Industries (NAI) is a leading independent supplier of Embedded I/O Boards, Single Board Computers, Rugged Power Supplies, Embedded Systems and Motion Simulation and Measurement Instruments for the Military, Aerospace and Industrial Industries. NAI provides the highest quality COTS and modified COTS products in Commercial, Extended Temperature and Rugged versions. Information about NAI and its products can be found at www.naii.com.