



For Immediate Release
Contact: Lisa Boccone
North Atlantic Industries, Inc.
631-567-1100
lboccone@naii.com

North Atlantic Industries Receives Initial Contract for Custom-on-Standard Architecture™ (COSA™) COTS Rugged Systems for the Ship to Shore Connector (SSC) Data Acquisition Unit

Bohemia, NY, February 3, 2015 – The advanced, rugged intelligent I/O and communications subsystem from North Atlantic Industries (NAI) delivers significant advantages for Data Acquisition and Control solutions for the U.S. Navy’s Ship to Shore Connector (SSC) Program. The SSC is the successor to the Navy’s extremely versatile Landing Craft Air Cushion (LCAC) vehicle, which is nearing its expected service life. NAI’s Sensor Interface Unit (SIU35) offers modularity and adds distributed interfaces over Ethernet for custom solutions using commercial-off-the-shelf (COTS) products.

As part of the Data Acquisition Unit (DAU) system, the [SIU35](#) enables population of each board with function-specific modules. As part of NAI’s unique, modular COSA architecture, a selection of up to 15 different functions can be selected from a broad assortment of low-power, high-density modules. Functions include programmable discrete analog I/O (A/D, D/A & RTD), communications (RS-232/422/485 & ARINC-429), LVDT measurement, RVDT simulation and LVDT/RVDT AC excitation.

The Space, Weight and Power-Cost (SWaP-C) optimized design increases packaging density, saves enclosure slots, and reduces power consumption, resulting in easy integration, cost savings and no NRE. In addition, the [SIU35](#) incorporates automatic background Built-in-Test (BIT) testing that is always enabled and continually checks the health of each channel.

“By employing NAI’s scalable [COSA architecture](#), L-3 Maritime Systems was able to choose a platform prior to completion of a detailed design,” said Tim Lorenzen, senior engineering manager at L-3 Maritime Systems. “As the craft’s systems interface designs changed, we were able to accommodate that functionality simply by changing I/O modules on the NAI multifunction I/O boards. This allowed us to move forward with development and hardware decisions earlier, keeping the program on schedule.”

“The SSC program is another example of how our modular and adaptive COSA delivers efficient SWaP-C I/O-intensive boards and systems in less time at a lower system cost,” explained Lino Massafra, VP of Sales & Marketing for NAI. “Our ability to mix and match functions gives customers a solution without the high costs typically associated with other vendors’ custom box designs. We were able to quickly provide L-3 Maritime Systems with distributed I/O solutions that met its demanding requirements — all with no NRE.”

Textron Systems

Textron Systems' businesses develop and integrate products, services and support for aerospace and defense customers, as well as civil and commercial customers including those in law enforcement, security, border patrol and critical infrastructure protection around the globe. Harnessing agility and a broad base of expertise, Textron Systems' innovative businesses design, manufacture, field and support comprehensive solutions that expand customer capabilities and deliver value. Textron Systems consists of its Advanced Information Solutions, Electronic Systems, Geospatial Solutions, Lycoming Engines, Marine & Land Systems, Support Solutions, TRU Simulation + Training, Unmanned Systems and Weapon & Sensor Systems businesses. More information is available at www.textronsystems.com. Textron is the Prime Contractor for the Detail Design and Construction of the Ship to Shore Connector, awarded under Naval Sea Systems Command (NAVSEA) Contract N00024-12-C-2401. For more information on the transition from LCAC to SSC from Textron, go to <http://www.textronsystems.com/video/lcac-ssc-video>.

L-3 Maritime Systems

A leading supplier of marine systems and electronics, including integrated bridge, navigation, communications, control and sensing systems for the U.S. Navy, the Military Sealift Command, the U.S. Coast Guard and allied navies. L-3 Maritime Systems also produces solutions for naval applications such as automated battery and environmental monitoring systems, alarm and announcing systems, video data distribution systems, computer information systems, integrated communications systems, and integrated platform management systems. To learn more about L-3 Maritime Systems, please visit www.L-3com.com/MaritimeSystems

North Atlantic Industries

NAI is a specialized provider of embedded electronics and computing for sense & response-intensive, Mil-Aero applications. We accelerate our clients' time-to-mission with a unique approach based on a Custom-on-Standard Architecture™ (COSA™) that delivers the best of both worlds: custom solutions from standard COTS components. For over 50 years, major defense systems integrators have leveraged our capabilities to meet the demanding requirements of a wide range of I/O and communication-centric applications, with uncompromising quality, efficiency and responsiveness. For more information, please visit www.naii.com



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