For Immediate Release
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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
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L-3 Maritime Systems
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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