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# PRESS RELEASE

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## **NI System on Module Helps Engineers Develop Embedded Systems Faster, With Less Risk**

*The NI sbRIO-9651 System on Module (SOM) offers a complete middleware solution  
along with an intuitive approach to FPGA programming.*

**AUSTIN, Texas – July 16, 2014** – NI (Nasdaq: NATI), the provider of solutions that enable engineers and scientists to solve the world’s greatest engineering challenges, today announced the [NI SOM](#). It combines the Xilinx Zynq All Programmable system on a chip (SoC) with supporting components such as memory on a small PCB and features a complete middleware solution and ready-to-go Linux-based real-time operating system (RTOS) already integrated. The NI SOM gives design teams the customizability of a SOM without the increased time and risk of developing custom software.

“We have evaluated several SOMs and embedded SBCs, and there is no comparison to the software integration offered by NI,” said Sebastien Boria, R&D mechatronics technology leader at Airbus. “We estimate that our development costs with the NI SOM are a tenth of the costs of alternative approaches because of the productivity gains of NI’s approach to system design, in particular to NI Linux Real-Time and LabVIEW FPGA.”

The NI SOM enables design teams to deploy reliable, complex embedded systems faster because it is based on and has the same rigorous design standards as the LabVIEW reconfigurable I/O (RIO) architecture. This architecture has already been used in high-reliability applications such as unmanned aerial vehicles and cataract surgery machines.

“Today’s embedded monitoring and control applications are more complex than ever before, and tighter deadlines and rising costs only increase stress for system designers,” said Jamie Smith, director of embedded systems marketing at NI. “Studies show that design teams using the LabVIEW RIO architecture can solve complex embedded problems in half the time compared with traditional custom design approaches.”

## Key Benefits

- *Complete Middleware Solution:* The NI SOM is shipped with a complete middleware solution out of the box to remove the time and risk associated with developing an embedded OS, custom software drivers and other common software components.
- *LabVIEW FPGA Integration:* LabVIEW FPGA eliminates a design team's need for hardware description language expertise, making powerful FPGA technology more accessible than ever before.
- *NI Linux Real-Time:* The NI SOM offers a robust Linux-based RTOS, which gives design teams access to an extensive community of applications and IP.
- *Shorter Prototyping Phase With CompactRIO:* Design teams can use CompactRIO to quickly prototype their applications and then deploy them with the same code used for prototyping, which saves significant time and effort.

For more information about the NI SOM, visit [www.ni.com/som](http://www.ni.com/som)

## About National Instruments

Since 1976, National Instruments ([www.ni.com](http://www.ni.com)) has equipped engineers and scientists with tools that accelerate productivity, innovation and discovery. NI's graphical system design approach provides an integrated software and hardware platform, speeding the development of any system needing measurement and control. NI ensures customer success with an ecosystem of services, support and more than 700 Alliance Partners worldwide. The company's long-term vision and focus on improving society through its technology also enables the success of its employees, suppliers and shareholders.

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