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# PRESS RELEASE

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## **New CompactRIO Software-Designed Controller Simplifies Control Systems**

*The CompactRIO performance controller integrates an Intel® Atom™ processor and Xilinx Kintex-7 FPGA technology for improved performance and easier system integration.*

**AUSTIN, Texas – Aug. 6, 2014 – NIWeek** – NI (Nasdaq: NATI), the provider of solutions that enable engineers and scientists to solve the world’s greatest engineering challenges, today announced the [CompactRIO performance controller](#). This software-designed controller integrates the latest embedded technologies from Intel and Xilinx to deliver unparalleled performance and flexibility, and is fully supported by [LabVIEW 2014](#) and [NI Linux Real-Time](#). It is ideal for advanced control and applications in harsh, industrial environments and provides high-performance processing, custom timing and triggering, and data transfer from modular C Series I/O.

“The LabVIEW RIO architecture breaks the barriers of traditional embedded system design and provides the best off-the-shelf platform to solve any demanding control and monitoring task,” said Jamie Smith, director of embedded systems at NI. “Our platform-based approach gives small design teams the confidence to build innovative embedded systems without wasting development time and cost.”

LabVIEW 2014 with NI Linux Real-Time support lets engineers and scientists use a single, familiar development environment to continue developing their system while taking immediate advantage of increased CompactRIO hardware performance.

“The Intel and NI collaboration allows industrial customers to benefit from the latest processing technologies while meeting their rugged performance requirements,” said Shahram Mehraban, global head of energy and industrial segments at the Intel Internet of Things Group. “By working closely with NI during early phases of product development, we are able to rapidly bring the latest Intel® Atom™ processor to this segment.”

## Key Features

- *Intel® Atom™ Processor:* Close the loop faster, tackle more tasks with the same controller, and process data with more precision, accuracy and speed with this dual-core processor.
- *Kintex-7 FPGA:* Process more channels and implement more complex filtering and control algorithms.
- *NI Linux Real-Time:* Get access to an extensive community of applications and IP with a robust Linux -based real-time OS.
- *Embedded UI:* Implement a local HMI device and use the control system to handle HMI tasks, cutting component costs as well as development and integration time.
- *Improved Vision Integration:* Add USB3 or GigE Vision cameras using NI Linux Real-Time, integrate vision acquisition directly into an application, and use new Vision IP to turn the FPGA into a high-performance vision coprocessor.

To learn more about the CompactRIO 4-slot performance controller, visit [ni.com/compactrio/performance-controller](http://ni.com/compactrio/performance-controller). An 8-slot version of the controller will be released later this year.

NI is an Associate member of the Intel® Internet of Things Solutions Alliance.

## 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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