

National Instruments has launched four new NI Single-Board RIO board-level embedded devices featuring a real-time processor, Spartan-6 field-programmable gate array (FPGA), analog and digital I/O and more built-in peripherals for custom embedded control and monitoring applications.

The new devices provide engineers with off-the-shelf FPGA and real-time processor technology through NI LabVIEW while maintaining the custom I/O often required for high-volume deployments through the option of a RIO Mezzanine Card connector. The connector provides direct access to FPGA digital input/output (DIO) lines.

NI Single-Board RIO alleviates the effort of designing an entire system from scratch so designers can focus on the custom parts of their applications, such as the I/O.

With the new devices, engineers can achieve the shorter time to market of an off-the-shelf system along with the I/O customisation offered by in-house designs, providing the best of both worlds. The devices also feature built-in analog I/O so engineers can take advantage of the company's industry-leading analog expertise in addition to their application-specific circuitry.

The devices' low-cost, small form factor; built-in I/O; real-time processor; and FPGA provide an ideal platform for embedded monitoring and control applications in industries such as medical and energy.

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