

Drivven Releases Common Rail Diesel Injector Driver in a CompactRIO Module to Complete Their Automotive Module Lineup

NEWS RELEASE, August 8, 2006 - With the increasing focus on diesel engine research to improve efficiency and emissions, Drivven answers the call for a highly flexible, low cost, common rail diesel injector driver module which plugs into National Instruments CompactRIO and PXI control systems. Like the rest of Drivven's CompactRIO module kits, it is programmable in LabVIEW FPGA and LabVIEW RT.

The three-channel common-rail diesel injector driver module provides an internal boost power supply for working voltages up to 150 volts. The peak and hold current profile can be calibrated for various types of injector solenoids using Drivven's DI Calibrator application. The channels are capable of 30 amp peak currents and 10 amp hold currents. The module is also capable of driving gasoline direct injectors and is priced at \$1995.00.



“The common rail diesel injector driver module from Drivven has enabled us to carry out sophisticated research with our common rail diesel engine without having to spend time and funds on developing low level actuator drivers and interfaces. Since our students are already familiar with LabVIEW, we are pleased to be able to build a full authority engine controller based on National Instruments hardware and program it entirely in LabVIEW,” says Dr. Rudy Stanglmaier, Assistant Professor of Mechanical Engineering at Colorado State University.

Drivven's common rail diesel injector driver module is added to their complete lineup of CompactRIO modules for interfacing directly to most automotive sensors and actuators. The family of eight modules supports I/O of traditional passenger car gasoline and diesel engines including crank/cam position sensors, common rail diesel injectors, port fuel injectors, ignition coils, electronic throttles, idle air control valves, analog sensors, thermistors, switches, and wide-band oxygen sensors. Drivven also provides LabVIEW VIs for tracking the angular position of crankshafts and camshafts. Position tracking and engine-synchronous outputs are executed in National Instruments RIO hardware at 40 MHz, in parallel with, and independent from high level CPU engine control algorithms.

“Using our CompactRIO modules, the task of building flexible engine controllers has never been this simple for powertrain research engineers. A custom engine control application can be written in LabVIEW in a matter of days instead of the months required with other languages. And starting with our open-source application templates can make application development even faster,” says Matthew Viele, Drivven's Vice President of engineering.

About Drivven

Drivven, Inc, of San Antonio, Texas is an alliance partner with National Instruments. Drivven provides automotive control and data acquisition solutions for research and production applications based on National Instruments CompactRIO and PXI hardware.

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