

Jet Engine Simulation Data Acquisition System



An outstanding jet engine simulation data acquisition system, which features 864 channels in a single cPCI/PXI chassis, was integrated by KineticSystems and demonstrated by the PXI Systems Alliance (PXISA) at Autotestcon and Productronica 2007. This system consists of various digital I/O, A/D and D/A converters, digitizers, frequency counters and multifunction DAQ. The system performs temperature, pressure, flow, RPM and ARINC-429 measurements from the jet engine simulation.

KineticSystems, GaGe and six other PXI vendors provided the hardware and software solutions that made this system possible. KineticSystems integrated all of the hardware and software from the various vendors and contributed eight of their own cPCI/PXI modules, such as the CP387, CP213, P635 and CompuScope 14100C, to name a few.

With the open standards of PXI, this kind of high-density channel count data acquisition system is now feasible. It would have been very difficult or nearly impossible to achieve with previous standards. This multi-vendor jet engine simulation system is a successful demonstration of the great potential and flexibility that is possible with cPCI/PXI.

KineticSystems and GaGe strive to continually provide innovative leading-edge cPCI/PXI solutions to solve the application needs of various industries.

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