



## Reliable data acquisition

KineticSystems manufactures a complete line of high performance data acquisition and control components and systems. Its products and solutions are used worldwide in numerous fields ranging from R&D to manufacturing test and ATE systems, to performing cutting-edge research, testing jet engines, designing and testing radar systems, enhancing performance in missiles, and a wide variety of other applications. Specific aerospace applications include wind tunnel data acquisition and control, jet and rocket engine testing, as well as testing of components ranging from the main shuttle fuel tanks to landing gear.

Multinational companies and governments worldwide realize that system-level standards during design and test are essential to ensure the safety and reliability of mission critical equipment such as jet and rocket engines, tanks, and missiles. In order to make them even safer and more reliable, the sophistication and quality of the test equipment must be steadily increasing.

The VXI bus standard, was initiated with efforts of the US Air Force and rapidly adopted by the aerospace industry worldwide.

KineticSystems continues to support and offer new VXI-based data acquisition solutions to its customers, such as the recently announced VCDS VME to VXI adaptor card. The VCDS is a functional replacement for the now obsolete Colorado Data Systems Model CDS 73A-851. Leveraging off of prior successes with products such as the

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VI5X, a VME to VXI adapter card for single board computers, KineticSystems designed and developed the new VCDS card that will allow its customers to continue to build new VXI systems around their existing VME processors and I/O modules. Additional new VXI products from KineticSystems include a family of PowerPC and Pentium-based Slot-0 controllers.

However, as technologies evolve and cost pressures throughout the industry arise, the movement towards new and more cost-effective solutions, such as CompactPCI/PXI-based platforms, is inevitable. As such, KineticSystems has developed a new family of high-performance CompactPCI/PXI based data acquisition cards. The recently announced CP213 analog-to-digital converter (ADC), with up to 128 channels of analog input and 16-bit resolution, is an excellent example of the innovative and cost-effective CompactPCI/PXI solutions now available from KineticSystems. The CP213 is a low-cost ADC with on-board signal conditioning, the only one currently available on the market that offers inte-

grated signal conditioning. Unlike other vendor solutions that require external signal conditioning modules, KineticSystems' CP213 is built-in to provide higher performance at a better price.

Similar to its VXI counterpart, the V213, the CP213 ships with plug and play drivers for configuring and using the device. Application examples are provided to illustrate basic functionality of the CP213. Typical applications include temperature measurements, powertrain/engine testing and automated test equipment.

KineticSystems data acquisition solutions have earned a worldwide reputation for excellence with efficient and cost-effective integration into powerful total solutions. Strategic partnerships with systems integrators enable KineticSystems to be involved with highly complex projects that require various suppliers to work seamlessly together to provide leading-edge integrated solutions. Such collaborative efforts with industry experts allow KineticSystems to provide a solutions-focused approach to the data acquisition needs of its customers.

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