

# All aboard

**K**ineticSystems is the first to provide on-board integrated signal conditioning in its latest ADC module. The CP213 is a CompactPCI/PXI ADC module that provides 32 or 64 differential analog input channels that can alternately be configured under software control as 64 or 128 single-ended analog input channels.

The CP213's 16-bit ADC scans each channel at a scan rate chosen by the user, and the number of channels scanned and scan rate are software selectable. Scans may be triggered from either the internal clock, one of eight PXI backplane triggers, the PXI star trigger bus or an external SMB connector on the module front panel. Single and continuous scan operations are supported.

The CP213 also features on-board calibration on each channel for end-to-end calibration. Under software control, channels 1 and 33 can be configured as isothermal reference channels, ideal for temperature measurement applications. In addition to the analog input channels, the CP213 provides 16 multi-function digital I/O (TTL) channels. Any of these channels can be configured as digital in, digital out, or selectively attached to 2 frequency in, 2 counter in, and/or 2 timer out channels. The CP213 comes with plug-and-play drivers for configuring and usage. Typical applications include temperature measurements, powertrain/engine testing, automated test equipment and general-purpose data acquisition.

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