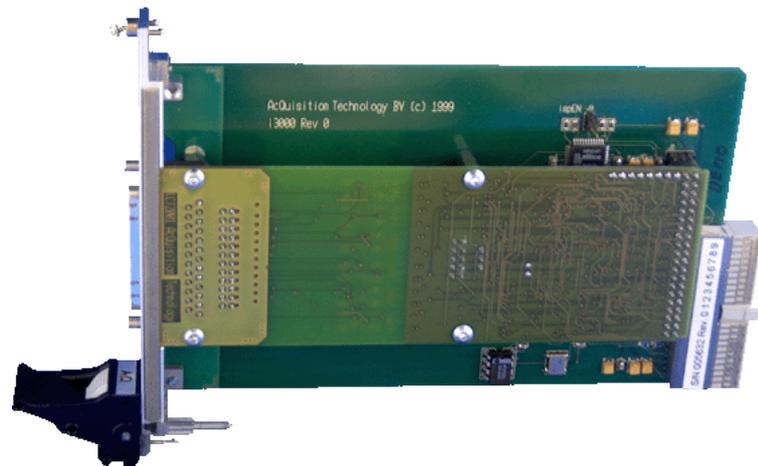# CPCI323

# 6 Channel Encoder Input Controller
## By AcQ Inducom

The CPCI323 Quadrature Incremental Encoder Interface is designed to interface with up to six quadrature incremental encoders. This is an ideal solution for all applications where several encoders must be connected with a maximum of flexibility and a minimum of overhead.

This CompactPCI card is availabe in a 3U and a 6U form factor.

**Features:**
> Executes local firmware from ROM or custom firmware downloaded by the host.
> Mailbox with polling and/or host interrupt, local interrupt mechanism
> Easy host interface, CPCI321/CPCI322 alike
> 32 bit counter for each encoder input
> Index signals can be configured for detection of rising, falling or any edge
> Index can be used to load the corresponding counter with a preset value
> Counter value has one LSB uncertainty during movement and is accurate at ease

## Controller

* The CPCI323 is based on an MC68332 local controller.
* The MC68332 handles high-level commands and provides a very flexible and versatile software interface for autonomous control over complex tasks.
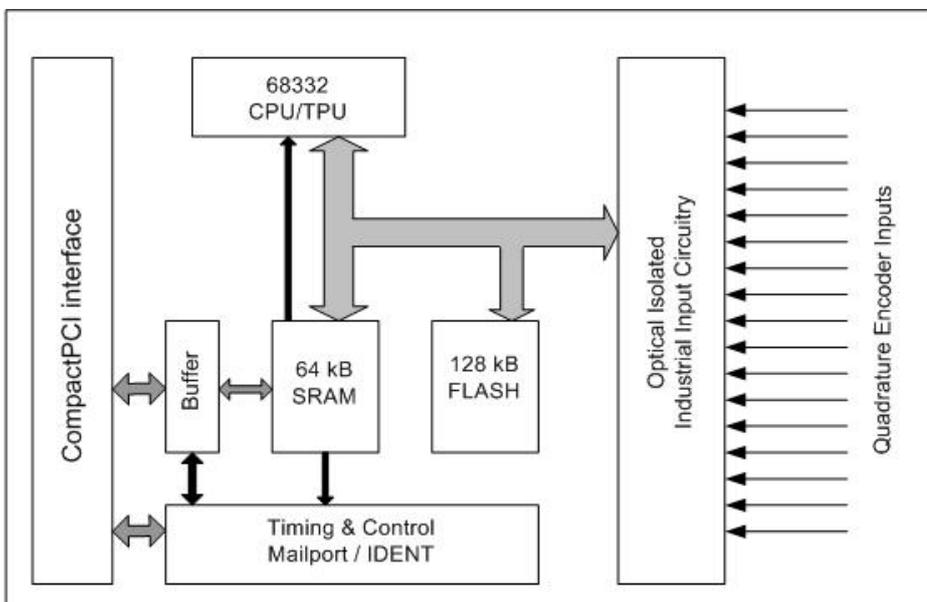
## Input Circuit

* The industrial inputs are optical isolated and the CPCI323 has good noise immunity.
* A slotted 2-channel out-of-phase square-waved Quadrature Incremental Encoder can be connected.
* The CPCI323 interfaces, in index-mode, with up to four encoders with two quadrature channels and an index channel or in non-index-mode, with up to six encoders with two quadrature channels.

## PCI Interface

* The CPCI323 has a PCI Specification 2.1 compliant target interface and uses a PCI9050 PCI Bus Target Interface Chip by PLX Technology Inc.

## Ordering Information

* **CPCI323/T01** 3U Quad incremental encoder interface CPCI Card
* **CPCI4323/T01** 6U Quad incremental encoder interface CPCI Card
* **CPCI(4)323/SW** APIS based software
* **CPCI(4)323/MAN** manual on paper



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cpci323_v5

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