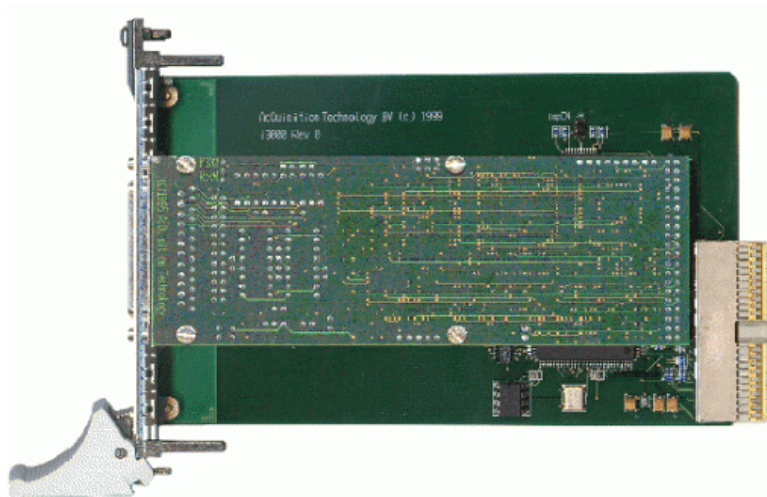**CPCI302**

ARINC-429 Controller for CompactPCI

The CPCI302 provides four ARINC-429 compatible channels (2x receive and 2x transmit) at any rate between 12.5 and 100kbps. Because the CPCI302 is built upon a flexible platform, the user functions can be implemented almost without restriction, making this product flexible and user-friendly.

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

Features:

> Flexible platform allows easy addition of user-specific requirements
> 2 transmit channels, 2 receive channels
> Data rate software adjustable between 12.5 and 100kbps per channel
> 16 User-selectable labels for interrupt generation upon reception
> Status and statistics monitoring for all channels
> ARINC-429 rise/fall capacitors selectable per channel
> Provides excellent platform for ARINC-429 protocol analyses

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PCI Interface

* The CPCI302 has a PCI Specification 2.1 compliant target interface and uses a PCI9050 PCI Bus Target Interface Chip by PLX Technology Inc.

Receiving Data

* For each receive channel, a local buffer is available for each label.
* After its parity is checked, the received message is stored in the corresponding label buffer, overwriting the previous content.
* The last received message for a specific label can be retrieved by issuing a command to the firmware interface.

Transmitting Data

* A message is transmitted by passing it as a parameter to the command interface and initiate the transmission by issuing the appropriate command.
* Parity generation (and checking!) is done on the CPCI302 transparent for the user.

Controller / Statistics

Controller:
* The onboard MC68332 32-bit controller executes firmware from local Flash memory, providing a versatile and user-friendly ARINC-429 interface.
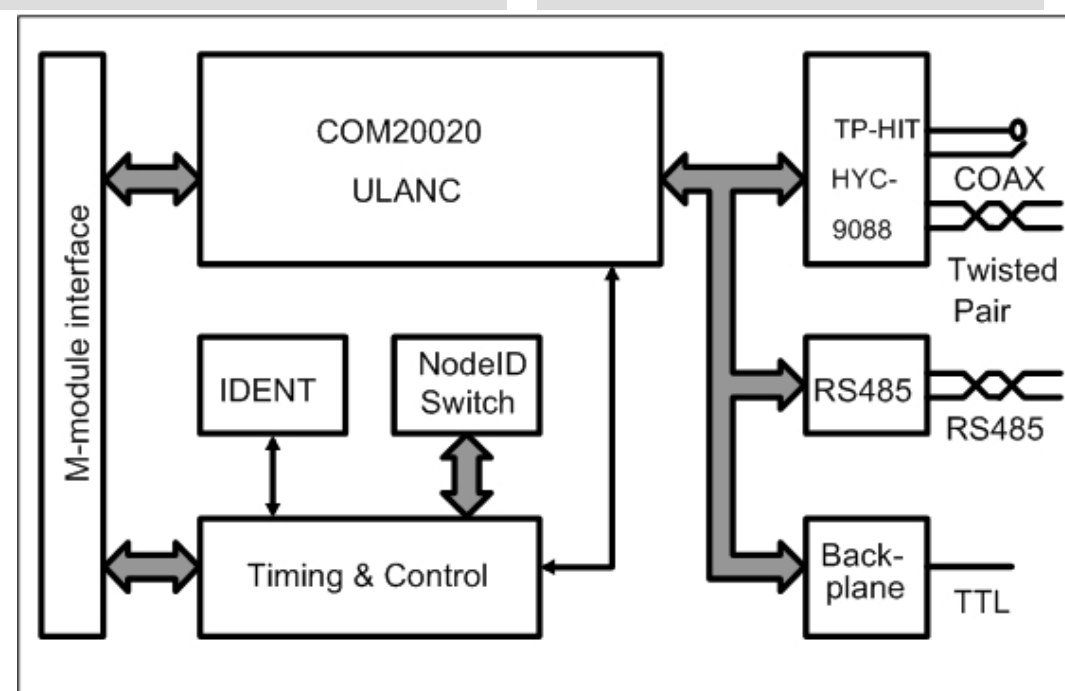
Statistics:
* For each channel and for each label, the number of transmitted and received messages are logged into the statistics part of the local firmware. Parity errors are logged global to a channel.

Ordering Information

* **CPCI302/T01** 3U ARINC-429 controller with two transmitters and two receivers
* **CPCI302/T02** 3U ARINC-429 controller with no transmitters and two receivers
* **CPCI302/T03** 3U ARINC-429 controller with one transmitter and no receiver
* **CPCI302/T04** 3U ARINC-429 controller with one transmitter and two receivers
* **CPCI302/T05** 3U ARINC-429 controller with two transmitters and no receiver
* **CPCI4302/T01** 6U ARINC-429 controller with 4x two transmitters and two receivers

Ordering Information

* **CPCI4302/T02** 6U ARINC-429 controller with no transmitters and 4x two receivers
* **CPCI4302/T03** 6U ARINC-429 controller with 4x one transmitter and no receiver
* **CPCI4302/T04** 6U ARINC-429 controller with 4x one transmitter and two receivers
* **CPCI4302/T05** 6U ARINC-429 controller with 4x two transmitters and no receiver
* **CPCI(4)302/SW** APIS based software
* **CPCI(4)302/MAN** manual on paper

AcQ :: International

AcQ International BV
Alanenweg 6
5342 PV OSS
The Netherlands

Phone +31 (0)412 64 19 22
Internet www.acq.nl
E-mail info@acq.nl

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