



# PMC-CAN/400-4

4x CAN with ARINC Protocol + IRIG-B

- 4x CAN ISO 11898
- ARINC 825 protocol available
- IRIG-B input
- 33/66 MHz PCI interface
- Conduction cooled version available

## PMC CAN Interfaces

The PMC-CAN/400-4 features four electrically isolated CAN High-Speed interfaces according to ISO 11898. A FPGA with optional integrated 32-bit microcontroller handles the local data control and management. The PMC-CAN/400-4 provides high-resolution hardware timestamps.

## IRIG-B

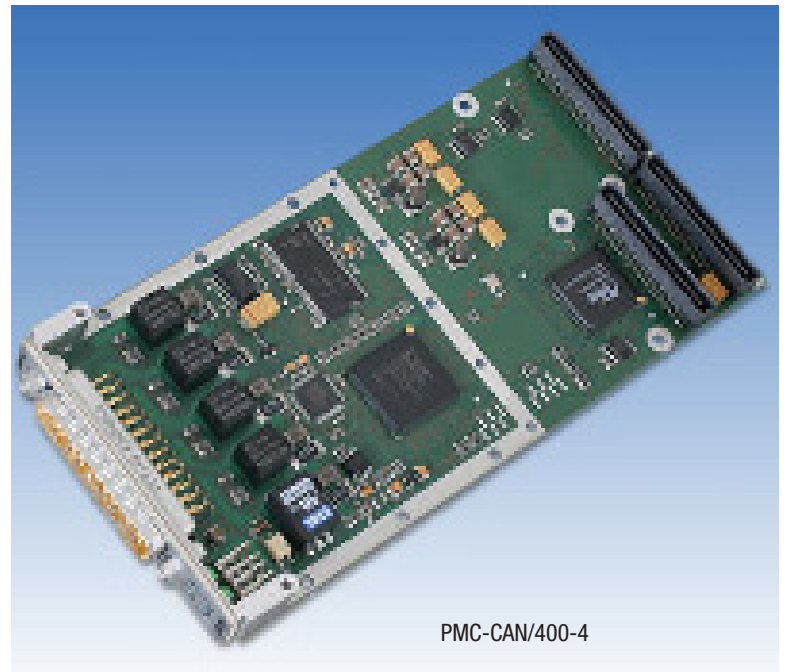
The IRIG-B interface offers inputs for analog or RS-422 IRIG-B coded signals. Both are electrically isolated. An additional microcontroller controls IRIG-B evaluation.

## Connectivity:

All I/Os connect to a 25-pin DSUB connector in the front panel. An adapter cable to 9-pin DSUB for CAN is available.

## Conduction Cooled Version

A conduction-cooled version of the PMC-CAN/400-4 is available. esd offers a VMEbus carrier board in conduction cooled design to carry up to two PMC-CAN/400-4.



PMC-CAN/400-4

For further information please visit  
<http://www.esd-electronics-usa.com/PMC.html>

## Software Support

CAN layer 2 (CAN-API) software drivers are available for Windows, VxWorks\*, QNX\* and Linux\* supporting up to 24 CAN nets. Drivers for other operating systems are available on request. The CANopen software package is available for Windows, VxWorks\* and Linux\*. ARINC 825 as another higher layer protocol is available as an option.

growing with the  
challenge

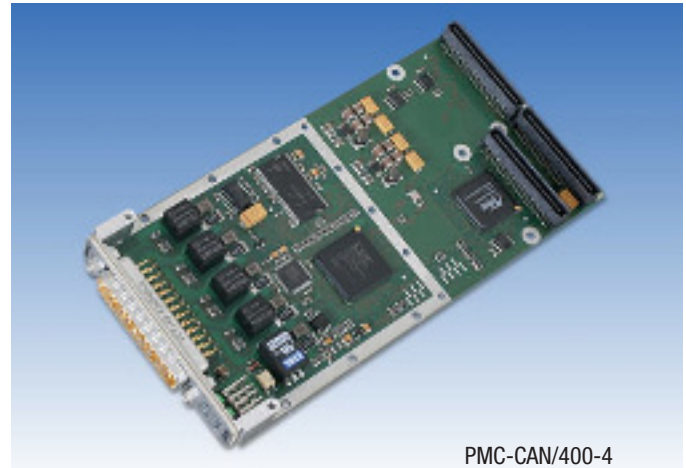
# PMC-CAN/400-4

## 4x CAN with ARINC Protocol + IRIG-B

- 4x CAN ISO 11898
- ARINC 825 protocol available
- IRIG-B input
- 33/66 MHz PCI interface
- Conduction cooled version available

### Technical Specifications:

<b>PMC interface and microprocessor:</b>	
PCI:	PCI 2.2, 32 bit 33/66 MHz, 3.3 V (5 V tolerant), PCI bus master capability
Memory:	BlockRAM: 72 KB DRAM: 64 MB
Microprocessor:	Optional 32-Bit: C in FPGA (Micro-Blaze)
<b>CAN:</b>	
Interface:	4x CAN high-speed interface acc. to ISO11898-2, differential, electrically isolated, bit rate up to 1 Mbit/s
CAN controller:	Acc. to ISO 11898-1 (CAN 2.0 A/B)
<b>IRIG-B Input:</b>	
Interface:	1x analog and 1x RS-422 compatible (both electrically isolated), 1x RS-422 compatible (at Pn4 only)
Controller:	8051 microcontroller
<b>General:</b>	
Ambient temp.:	Standard: 0 ...+50 /C Extended: -20...+75 /C (on request) Conduction cooled: -40...+85 /C
Humidity:	Max. 90 %, non-condensing
Power supply:	5 V, 3.3 V
Connectors:	Pn1, Pn2, Pn4, DSUB25 (male) (standard cooling version)
LEDs:	4x CAN status, 1x IRIG-B, 1x module status (at standard cooling version C.2047.01 ... 03)



PMC-CAN/400-4

For further information please visit  
<http://www.esd-electronics-usa.com/PMC.html>

### Order Information:

Designation		order no.
PMC-CAN/400-4	4x CAN, 1x IRIG-B, ARINC 825 firmware, standard cooling	C.2047.01
	4x CAN, 1x IRIG-B, standard cooling	C.2047.02
	4x CAN, standard cooling	C.2047.03
PMC-CAN/400-4-CC	as C.2047.01, but conduction cooled, interfaces available at Pn4 with TTL level only	C.2047.04
PMC-CAN/400-4-Vx	VxWorks* object license	C.2047.55
PMC-CAN/400-4-QNX	QNX* object license	C.2047.32
CAN-DRV-LCD	CAN layer 2 (CAN-API) object license for Windows and Linux*, incl. CD	C.1101.02
CANopen-LCD	CANopen object license for Windows and Linux*, incl. CD	C.1101.06



esd electronics, inc.  
 Phone: 800-732-8006  
 Fax: 800-732-8093

Web: <http://www.esd-electronics.us>  
 Email: [us-sales@esd-electronics.com](mailto:us-sales@esd-electronics.com)