softing

CAN-AC PCI

Universal PCI boards with onboard microcontroller

Single and dual channel interface boards in PCI format for use in CAN and CANopen networks.

FLEXIBLE INTERFACE FOR STANDARD SOFTWARE AND SELF-DEVELOPED APPLICATIONS

CAN-AC PCI allows PC applications to exchange data with the connected CAN bus. Available in single and dual channel versions with flexible programming interface and integration with Mathworks xPC Target, CAN-AC PCI is a universal interface solution for almost any CAN application – whether it's bus analyzers, machine controllers, test rigs or real-time simulations.

RAPID INTEGRATION WITH THE RIGHT SOFTWARE INTERFACE

CAN-AC PCI provides an API that can be optimally configured to the application's requirements. In FIFO mode, all sent and received messages are buffered to ensure that no data is lost when the computer is busy with other work. The Object Buffer mode allows the application to filter messages of interest, and automatically buffers the data recently received by the application. The application can use this data when needed, and is not burdened with the other messages. The CAN-AC PCI interface board can automatically transmit the data on the bus in exact, individually configurable cycles.
A CANopen Client API is also included for use in CANopen networks.

APPLICATION IN A WIDE VARIETY OF TARGET SYSTEMS

Sample projects with commented source code demonstrate how the boards are used with C, C# or VB.Net. Thanks to the large choice of drivers, the CAN-AC PCI supports not only Windows, but also many other operating systems and real-time environments.

CUSTOMER BENEFITS

> Fully integrated into Mathworks xPC Target
> Optimum integration through flexible API and wide range of drivers
> Quick and easy to get started thanks to many source code samples

TECHNICAL DATA

	Single channel	Dual channel
CAN protocol and available APIs		
CAN V2.0 (11/29 bit IDs)	●	●
CAN API	●	●
CANopen Client API	●	●
CAN bus connection		
Connector	9-pin D-sub male	
No. of channels	1	2
Galvanically isolated	●	●
Physical layer	ISO 11898-2 (CAN high speed)	
PC interface	PCI Rev. 2.1, 4 KB DPRAM	
Interrupts	Plug-and-play	
Operating temperature	0 °C .. +55 °C	
Storage temperature	-20 °C .. +70 °C	
Relative humidity	< 90%, non-condensing	
Dimensions [mm]	160 x 100	
Power supply		
Supply voltage	5V (± 5%) DC	
Current consumption [mA]	typ. 380	typ. 410
Drivers available for		
Windows 7	●	●
Windows Vista	●	●
Windows XP	●	●
Windows Server 2008	●	●
Windows Server 2003 R2	●	●
Windows 2000	●	●
Windows Embedded CE 6.0	●	●
Linux	●	●
Conformity	CE FC RoHS COMPLIANT	
Included in package	PC interface board, CD with drivers, documentation and sample programs	

ORDER NUMBER

	Single channel	Dual channel
	CAN-AC1-PCI	CAN-AC2-PCI

ADDITIONAL PRODUCTS AND SERVICES

X-ANALYSER	CAN Bus Analyzer, full version
X-ANALYSER-ECO	CAN Bus Analyzer, economy version
X-ANALYSEROPT/CO	Option: CANopen interpretation for X-Analyser
X-ANALYSEROPT/DN	Option: DeviceNet interpretation for X-Analyser
X-ANALYSEROPT/19	Option: J1939 interpretation for X-Analyser

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for their ease of use and functional advantages.

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