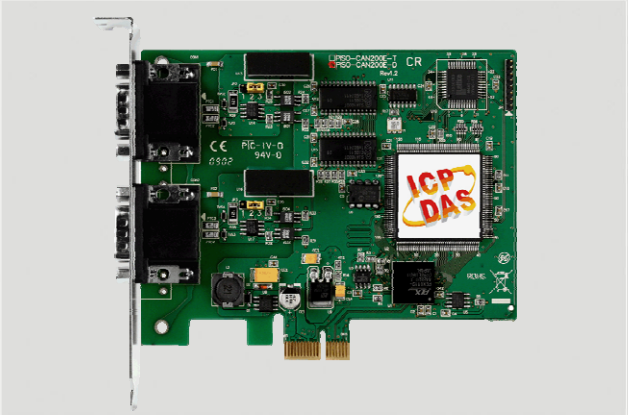
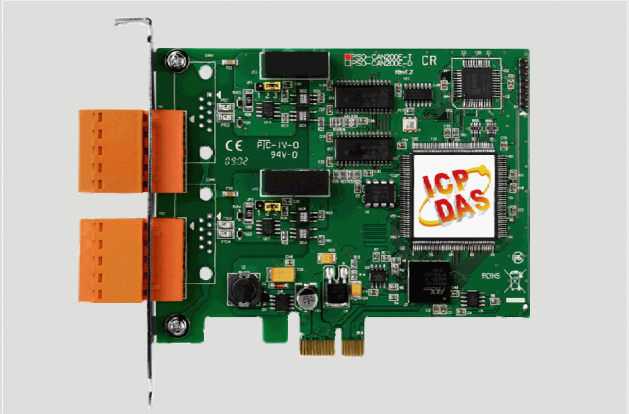
CAN Series Products

PCI Express x1 CAN Communication Card



PEX-CAN200i-D



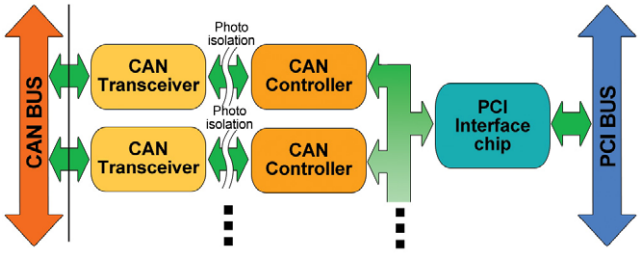
PEX-CAN200i-T

The PEX-CAN200i can represents an economic solution of an active CAN board with express PCI bus. It has 2 independent CAN bus communication ports with 5-pin screw terminal connector or 9-pin male D-sub connector, and has the ability to cover a wide range of CAN applications. Besides, PEX-CAN200i uses the new CAN controller Phillips SJA1000T and transceiver 82C250, which provide bus arbitration, error detection with auto correction and re-transmission function.

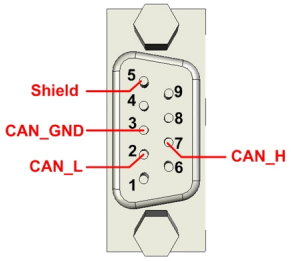
Features

- Compatible with CAN 2.0 parts A and B
- Fully compatible with ISO 11898-2 standard
- Support CAN bard from 10 kbps ~ 1 Mbps
- 2500 Vrms photo couple isolation on the CAN bus
- 33 MHz, 32 bit, X1 PCI Express bus
- Built-in jumper to select 120 Ω terminal resister
- 3 kV galvanic isolation
- 2 independent CAN channels
- Direct memory mapping to the CAN controller
- Provide VB6.0, VC++6.0, Delphi, BCB6.0 demos
- LabView/DASYLab driver
- Driver support Windows 98/ME/NT/2K/XP/7

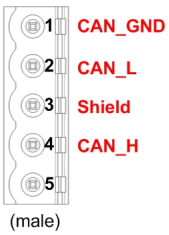
Hardware architecture



Pin Assignments

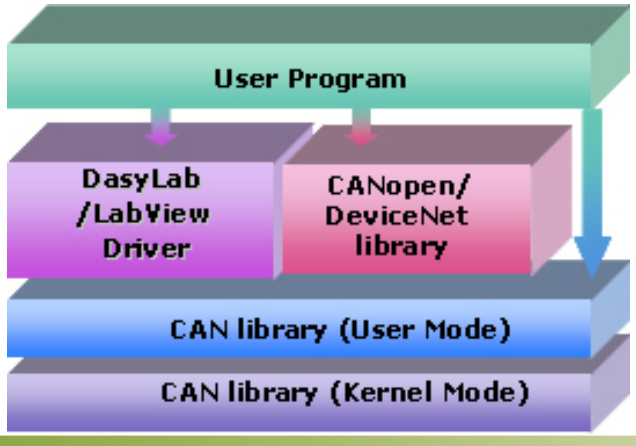


9 pin male D-sub connector

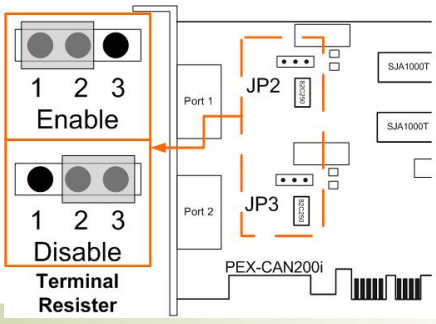


5 pin screw terminal connector

Software Layer



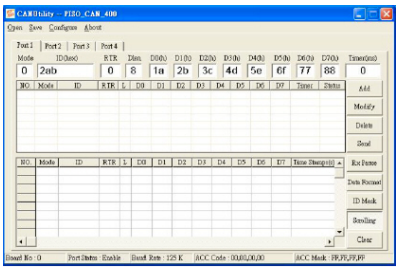
Terminal Resistor



Hardware Specifications

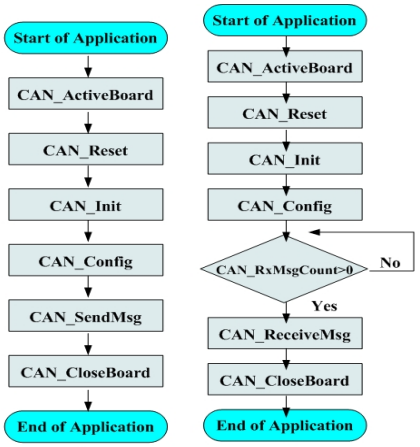
Model Name	PEX-CAN200i-D	PEX-CAN200i-T
Bus Interface		
Type	33 MHz, 32 bit, X1 PCI Express bus	
CAN Interface		
Controller	NXP SJA1000T with 16 MHz clock	
Transceiver	NXP 82C250	
Channel number	2	
Connector	9-pin male D-Sub	5-pin screwed terminal block
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)	
Terminator Resistor	Jumper for 120 Ω terminator resistor	
Power		
Power Consumption	100 mA @ 12 V, 100 mA @ 3.3 V	
Software		
Driver	Windows 98/ME/NT/2K/XP/7, Linux 2.6.37, LabView, DASYLab	
Library	VB 6.0, VC++ 6.0, BCB 6.0, Delphi 4.0	
Mechanism		
Dimensions	120mm x 22mm x 85mm (W x L x H)	
Environment		
Operating Temp.	0 ~ 60 ℃	
Storage Temp.	-20 ~ 70 ℃	
Humidity	5 ~ 85% RH, non-condensing	

Utility



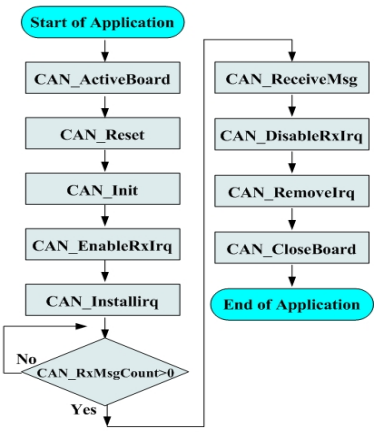
- Can be a CAN system monitor tool with CAN cards
- Can test CAN cards
- Send/Receive/Record CAN messages
- Provide cyclic transmission function
- Record the CAN messages with filter ID with time stamp

Flow Diagram for Applications



Flow Chart of "Send CAN Messages"

Flow Chart of "Receive CAN Messages"



Flow Chart of "Receive CAN Messages" with IRQ

Ordering Information

PEX-CAN200i-D CR	2-Port Isolated Protection CAN Communication Board with 9-pin D-sub connector (RoHS)
PEX-CAN200i-T CR	2-Port Isolated Protection CAN Communication Board with 5-pin Screw Terminal Connector (RoHS)