



PCM-CAN100

PCI104 CAN Communication Module

Features

- PCI-104 compliant
- Compatible with CAN 2.0 parts A and B
- Fully compatible with ISO 11898-2 standard
- Support CAN baud from 10 kbps ~ 1 Mbps
- 2500 Vrms photo couple isolation on the CAN bus
- Built-in jumper to select 120 Ω terminal resistor
- 1 independent and 1 bypass CAN channels
- Direct memory mapping to the CAN controller
- Provide VB6.0, VC++6.0, Delphi, BCB6.0 demos
- Driver support Windows XP/7/8/10, Linux



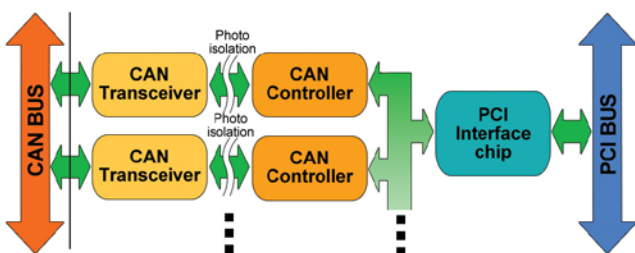
Introduction

The PCM-CAN100 can represent a CAN solution on a high quality PCI104 hardware in industrial environment compliant with CAN 2.0A and CAN 2.0B specification. It has 1 independent CAN bus communication ports with 9-pin D-sub male connector and 1 bypass CAN port with 9-pin D-sub female connector, and has the ability to cover a wide range of CAN applications. Besides, PCM-CAN100 uses the CAN controller Phillips SJA1000T and transceiver 82C250, which provide bus arbitration, error detection with auto correction and re-transmission function. It can be installed in both 3.3 V and 5 V PCI slot and supported truly "Plug & play".

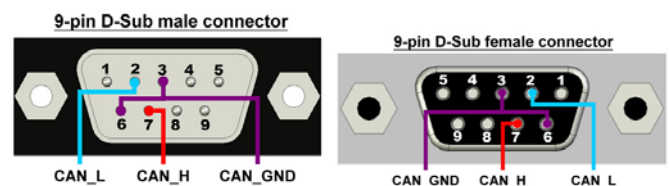
Hardware Specifications

Bus Interface	
Type	PCI-104
CAN Interface	
Controller	NXP SJA1000T with 16 MHz clock
Transceiver	NXP 82C250
Channel number	1 independent and 1 bypass
Connector	9-pin male and female D-Sub (CAN_L, CAN_SHLD, CAN_H, N/A for others)
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)
Terminal Resistor	Jumper for 120 Ω terminal resistor
Power	
Power Consumption	250 mA @ 5 V
Software	
Driver	Windows XP/7/8/10, Linux 2.6.x ~ 5.4.0, LabView, DASyLab, InduSoft
Library	VB 6.0, VC++ 6.0, BCB 6.0, Delphi 4.0
Mechanism	
Dimensions	91mm x 96mm x 22mm (W x L x H)
Environment	
Operating Temp.	0 ~ 60 °C
Storage Temp.	-20 ~ 70 °C
Humidity	5 ~ 85% RH, non-condensing

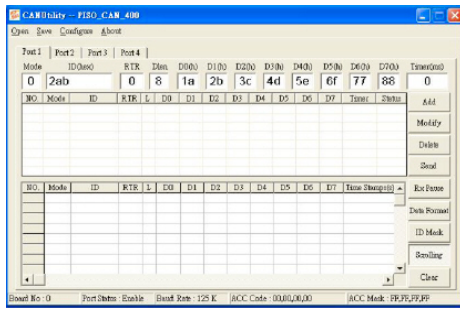
Hardware architecture



Pin Assignments

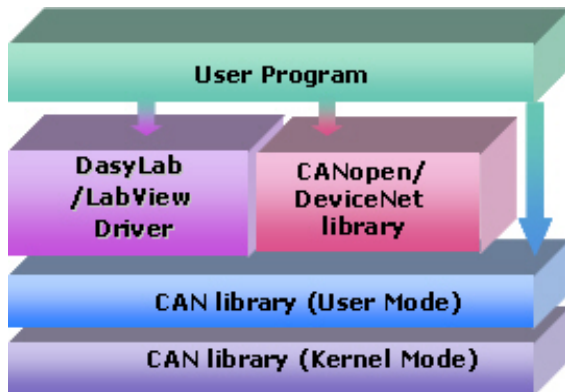


Utility

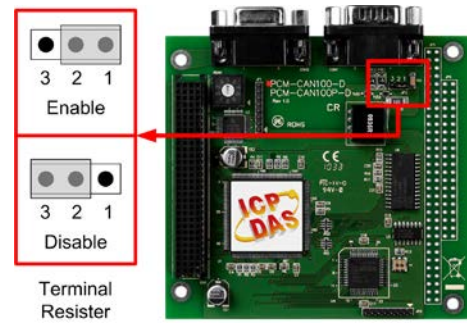


- Can be a CAN system monitor tool with CAN cards
- It is a good tool to test CAN system
- Send/Receive/Record CAN messages
- Provide cyclic transmission function
- Record the CAN messages with filtered ID and time stamp

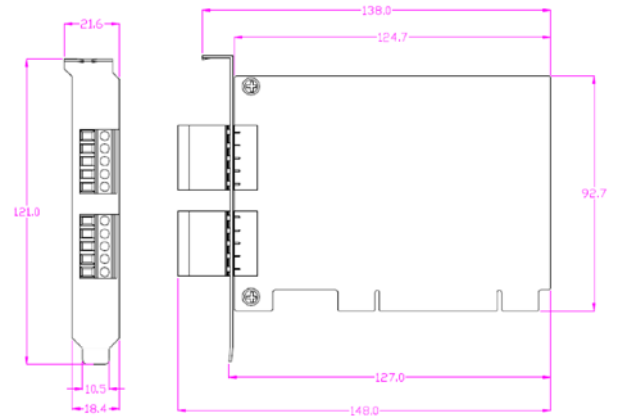
Software Layer



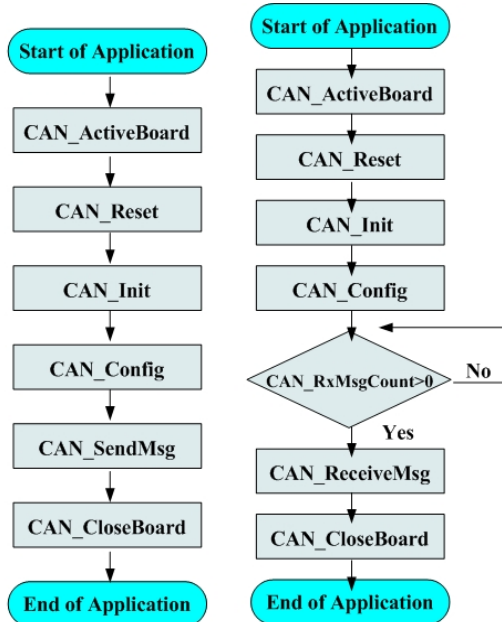
Terminal Resistor



Dimensions (Units: mm)

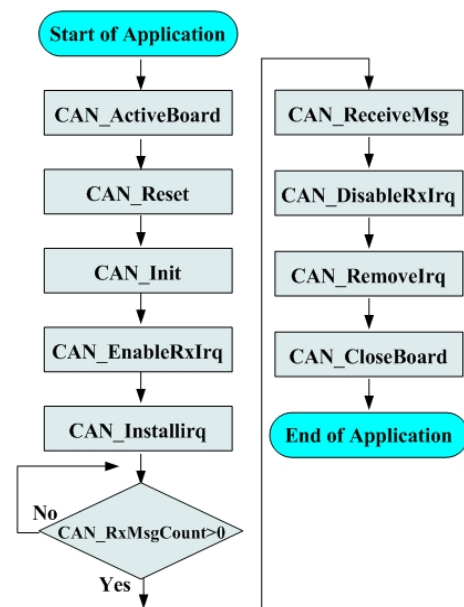


Flow Diagram for Applications



Flow Chart of "Send CAN Messages"

Flow Chart of "Receive CAN Messages"



Flow Chart of "Receive CAN Messages" with IRQ

Ordering Information

PCM-CAN200-D CR	1-Port Isolated Protection CAN Communication PCI-104 Module with 9-pin Male and Female D-sub connector (RoHS)
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