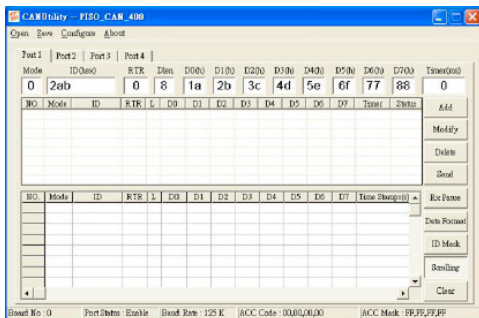# ICP DAS

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
- Universal PCI supports both 5 V and 3.3 V PCI bus
- Built-in jumper to select 120 Ω terminal resister
- Direct memory mapping to the CAN controller
- 2500 Vrms photo couple isolation on the CAN bus
- Provide VB6.0, VC++6.0, Delphi, BCB6.0 demos
- LabView/DASYLab driver
- Driver support Windows XP/7/8/10, Linux

PISO-CAN100U-D PISO-CAN100U-T
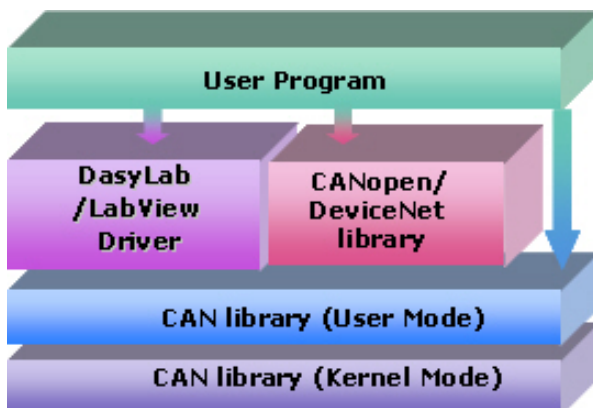1-Port Isolated Protection Universal PCI CAN Card

Introduction

The PISO-CAN100U can represent an economic solution of an active CAN board with universal PCI bus. It has one CAN bus communication port 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, PISO-CAN100U uses the new 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".
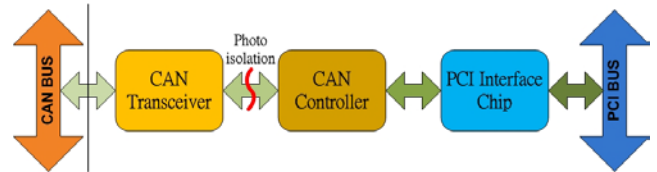
Utility

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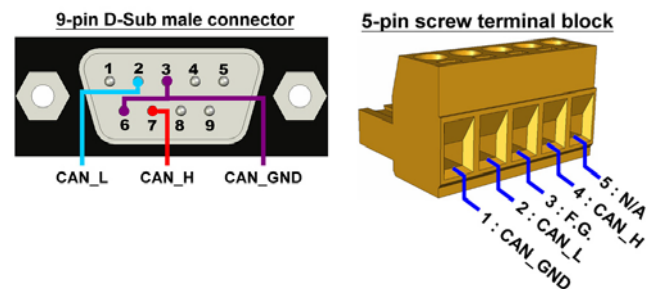- Record the CAN messages with filter ID with time stamp
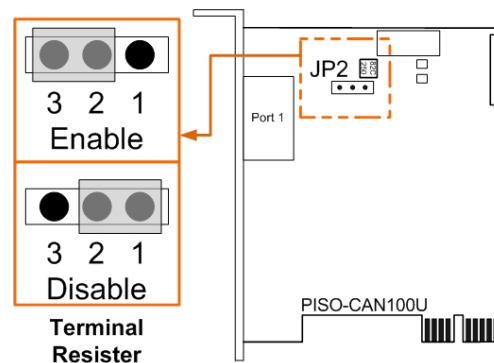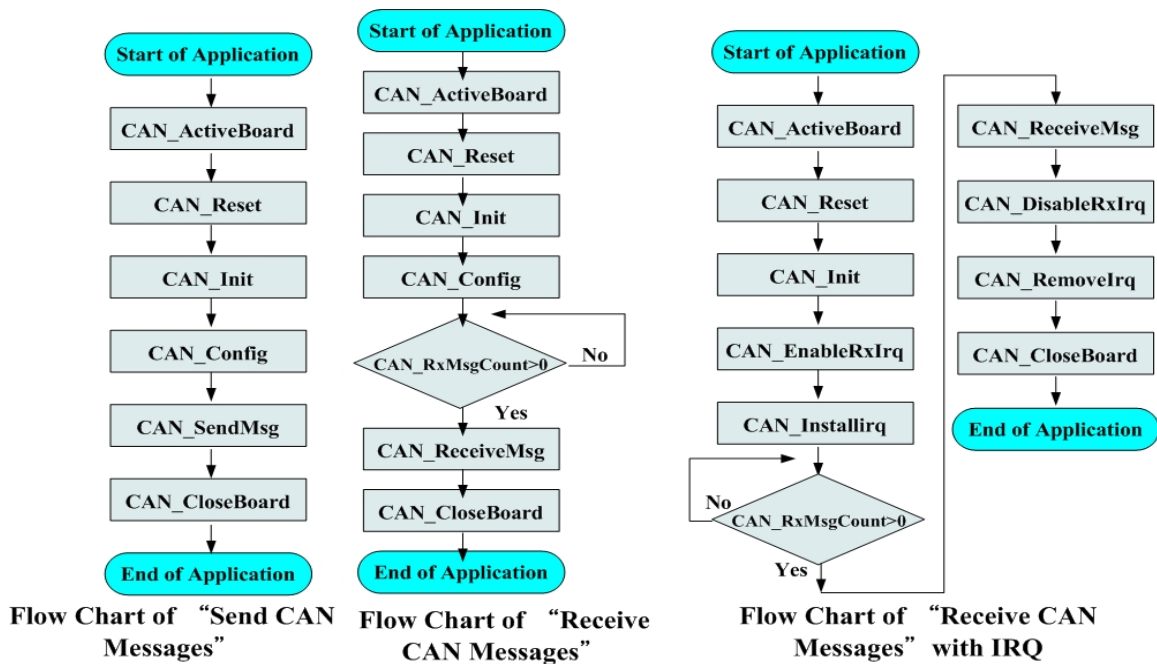
Hardware architecture

Pin Assignments

9-pin D-Sub male connector

CAN_L   CAN_H   CAN_GND

5-pin screw terminal block

1: CAN_GND
2: CAN_L
3: F.G.
4: CAN_H
5: N/A

Software Layer

Terminal Resistor

Terminal Resister

■ Hardware Specifications

Model Name	PISO-CAN100U-D	PISO-CAN100U-T
Bus Interface		
Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, plug and play	
CAN Interface		
Controller	NXP SJA1000T with 16 MHz clock	
Transceiver	NXP 82C250	
Channel number	1	
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)	
Terminal Resistor	Jumper for 120 Ω terminal resistor	
Power		
Power Consumption	225 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, C#.Net, VB.Net	
Mechanism		
Dimensions	126mm x 22mm x 85mm (W x L x H)	
Environment		
Operating Temp.	-20 ~ +60°C	
Storage Temp.	-40 ~ +70 °C	
Humidity	5 ~ 85% RH, non-condensing	

■ 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

PISO-CAN100U-D CR	1-Port Isolated Protection CAN Communication Board with 9-pin D-sub connector (RoHS)
PISO-CAN100U-T CR	1-Port Isolated Protection CAN Communication Board with 5-pin Screw Terminal Connector (RoHS)