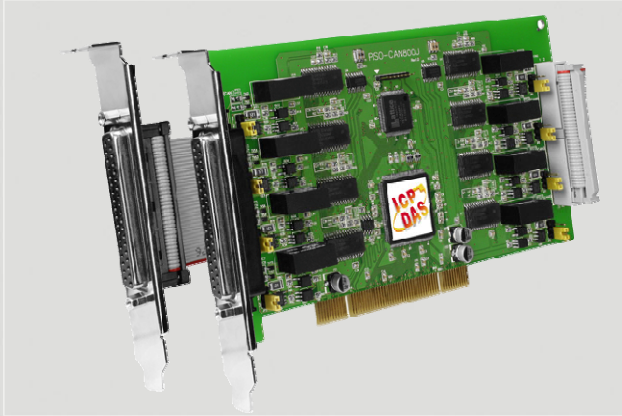




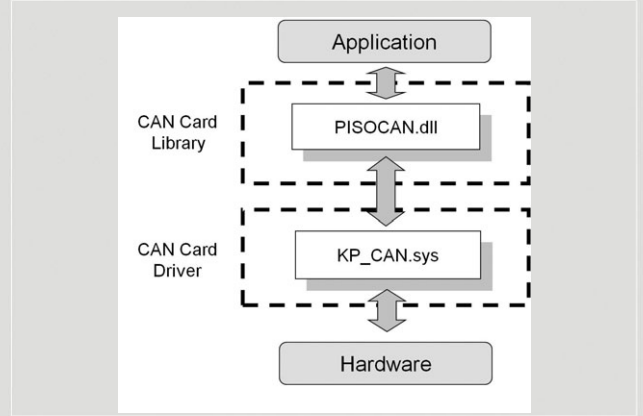
CAN Series Products



8-Port Isolated Protection Universal PCI CAN Card



PISO-CAN800U-D



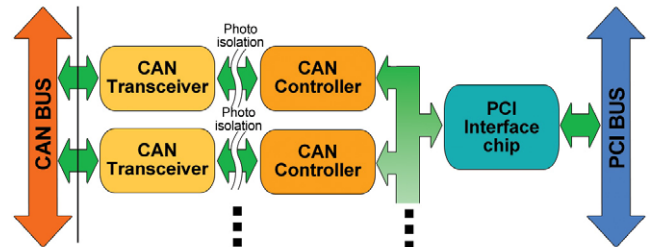
Library Structure

The PISO-CAN800U-D can represent an economic solution of an active CAN board with universal PCI bus. It has eight CAN bus communication ports and has the ability to cover a wide range of CAN applications. Besides, PISO-CAN800U-D uses the new CAN controller Phillips SJA1000T and transceiver TJA1042, 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”.

Features

- 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
- Universal PCI supports both 5 V and 3.3 V PCI bus
- Built-in jumper to select 120 Ω terminal resistor
- 3 kV galvanic isolation
- 8 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 2K/XP/7

Hardware architecture

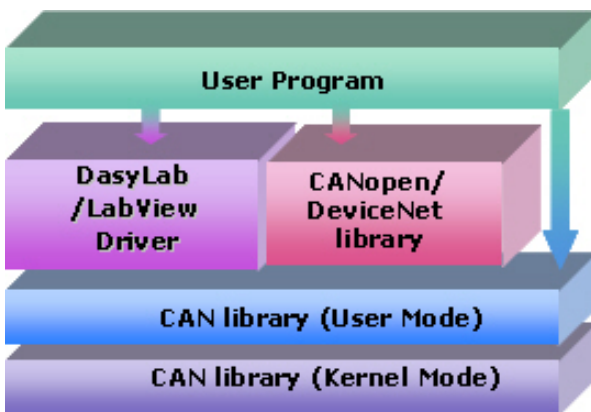


Pin Assignments

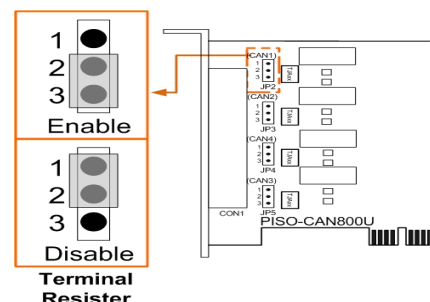
Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.
CANS_GND	19	CANL_L	37	CANL_GND	19	CANL_L	37
CANS_H	18	N.C.	36	CANL_H	18	N.C.	36
CANS_GND	17	N.C.	35	CANL_GND	17	N.C.	35
N.C.	16	N.C.	34	N.C.	16	N.C.	34
N.C.	15	N.C.	33	N.C.	15	N.C.	33
CANL_L	14	CANL_GND	33	CANL_L	14	CANL_GND	33
N.C.	13	CANL_H	32	N.C.	13	CANL_H	32
N.C.	12	N.C.	31	N.C.	12	N.C.	31
N.C.	11	N.C.	30	N.C.	11	N.C.	30
CANL_GND	10	N.C.	29	CANL_GND	10	N.C.	29
CANL_H	09	CANL_L	28	CANL_H	09	CANL_L	28
CANL_GND	08	N.C.	27	CANL_GND	08	N.C.	27
N.C.	07	N.C.	26	N.C.	07	N.C.	26
N.C.	06	CANL_GND	25	N.C.	06	CANL_GND	25
CANL_L	05	CANL_H	23	CANL_L	05	CANL_H	23
N.C.	04	N.C.	22	N.C.	04	N.C.	22
N.C.	03	N.C.	21	N.C.	03	N.C.	21
N.C.	02	N.C.	20	N.C.	02	N.C.	20
N.C.	01	N.C.	19	N.C.	01	N.C.	19



Software Layer



Terminal Resistor

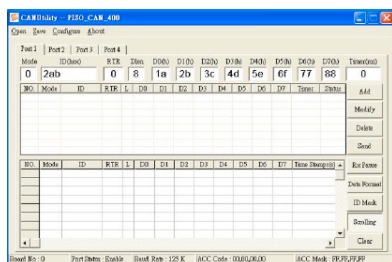




Hardware Specifications

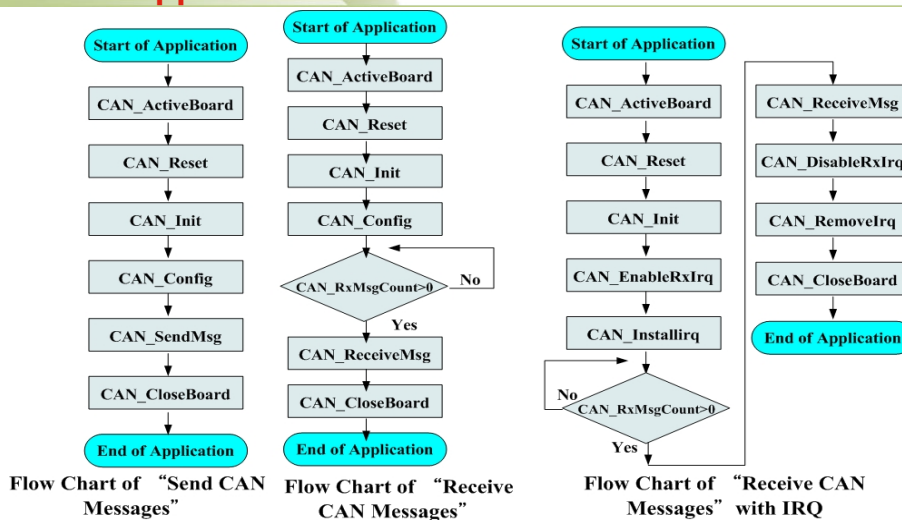
Bus Interface	
Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, plug and play
CAN Interface	
Controller	NXP SJA1000T with 16 MHz clock
Transceiver	NXP TJA1042
Channel number	8
Connector	Female DB-37
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)
Terminator Resistor	Jumper for 120 Ω terminator resistor
Power	
Power Consumption	800 mA @ 5 V
Software	
Driver	Windows 2K/XP/7, LabView, DASyLab
Library	VB 6.0, VC++ 6.0, BCB 6.0, Delphi 4.0, C#.Net, VB.Net
Mechanism	
Dimensions	193mm x 22mm x 93mm (W x L x H)
Environment	
Operating Temp.	0 ~ 60 $^{\circ}$ C
Storage Temp.	-20 ~ 70 $^{\circ}$ C
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



Ordering Information

PISO-CAN800U-D CR

8-Port Isolated Protection Universal PCI CAN Communication Board (RoHS)
Includes One CA-4037W and Two CA-4002 Connectors