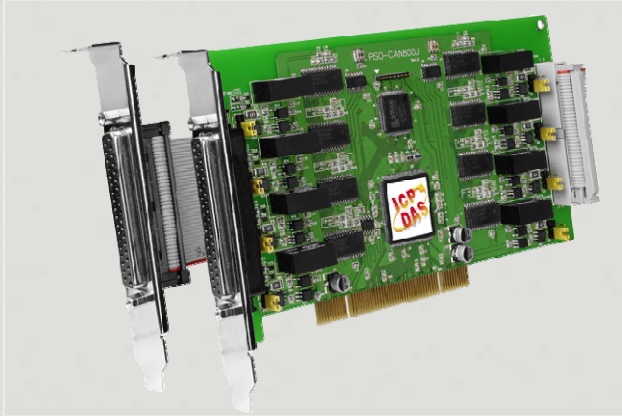




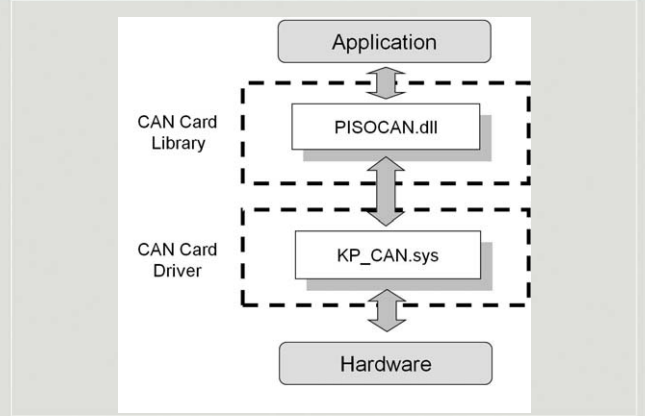
CAN Series Products



8-Port Isolated Protection Universal PCI CAN Card



PISO-CAN800U-D



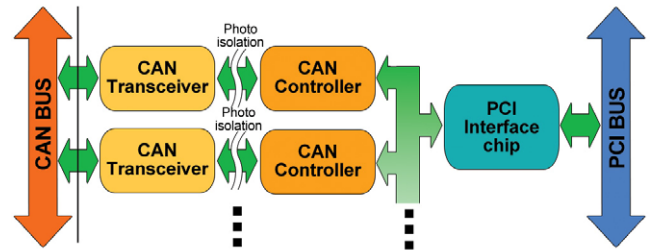
Library Structure

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

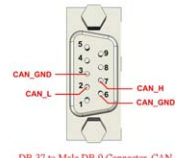
- Compatible with CAN 2.0 parts A and B
- Fully compatible with ISO 11898-2 standard
- Support CAN baud from 10 kbps ~ 1 Mbps
- 2500 Vrms photo couple isolation on the CAN bus
- Universal PCI supports both 5 V and 3.3 V PCI bus
- Built-in jumper to select 120 Ω terminal resistor
- 3 kV galvanic isolation
- 8 independent CAN channels
- Direct memory mapping to the CAN controller
- Provide VB6.0, VC++6.0, Delphi, BCB6.0 demos
- LabView/InduSoft driver
- Driver support Windows XP/7/8/10, Linux

Hardware architecture

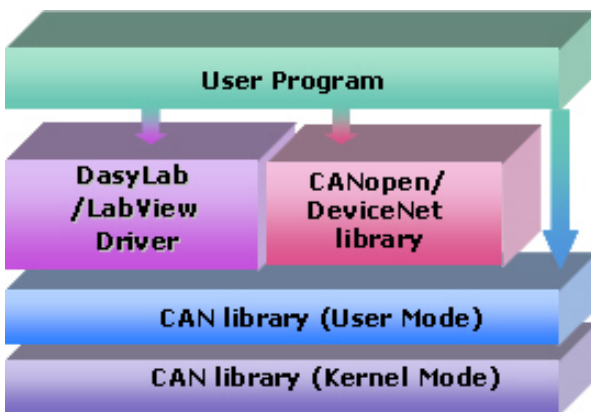


Pin Assignments

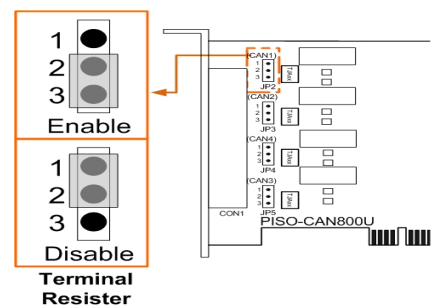
Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.
CANS_GND	19	CANL_L	37	CANL_GND	19	CANL_L	37
CANS_H	18	N.C.	36	CANL_H	18	N.C.	36
CANS_GND	17	N.C.	35	CANL_GND	17	N.C.	35
N.C.	16	N.C.	34	N.C.	16	N.C.	34
N.C.	15	N.C.	34	N.C.	15	N.C.	34
CANL_L	14	CANL_GND	33	CANL_L	14	CANL_GND	33
N.C.	13	CANL_H	33	N.C.	13	CANL_H	33
N.C.	12	CANL_GND	32	N.C.	12	CANL_GND	32
N.C.	11	N.C.	31	N.C.	11	N.C.	31
CANL_GND	10	N.C.	30	CANL_GND	10	N.C.	30
CANS_H	09	N.C.	29	CANL_H	09	N.C.	29
CANS_GND	08	CANL_L	28	CANS_GND	08	CANL_L	28
N.C.	07	N.C.	27	N.C.	07	N.C.	27
N.C.	06	N.C.	26	N.C.	06	N.C.	26
CANL_L	05	CANL_GND	25	CANL_L	05	CANL_GND	25
N.C.	04	CANL_H	24	N.C.	04	CANL_H	24
N.C.	03	CANL_GND	23	N.C.	03	CANL_GND	23
N.C.	02	CANL_H	22	N.C.	02	CANL_H	22
N.C.	01	N.C.	21	N.C.	01	N.C.	21
N.C.		N.C.	20	N.C.		N.C.	20



Software Layer



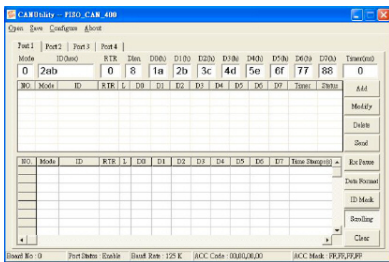
Terminal Resistor



Hardware Specifications

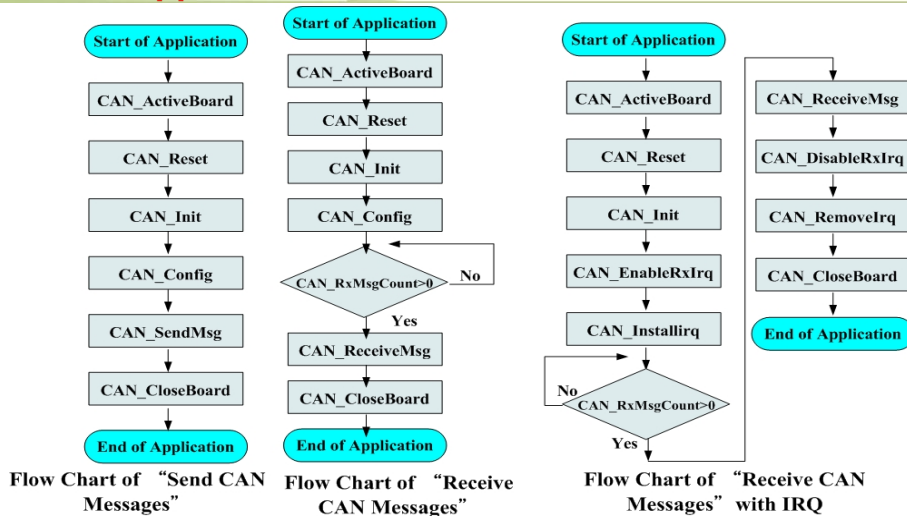
Bus Interface	
Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, plug and play
CAN Interface	
Controller	NXP SJA1000T with 16 MHz clock
Transceiver	NXP TJA1042
Channel number	8
Connector	Female DB-37
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)
Terminal Resistor	Jumper for 120 Ω terminal resistor
Power	
Power Consumption	800 mA @ 5 V
Software	
Driver	Windows XP/7/8/10, Linux 2.6.x ~ 4.8.0, LabView, InduSoft
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 °C
Storage Temp.	-20 ~ 70 °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