

PISO-CAN800U-D

8-Port Isolated Protection Universal PCI CAN Card

Features

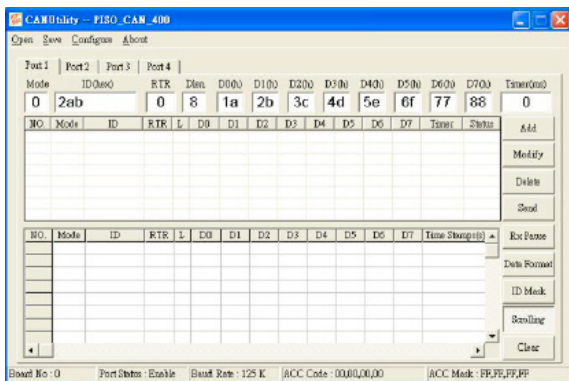
- Compatible with CAN 2.0 parts A and B
- Fully compatible with ISO 11898-2 standard
- Support CAN baud from 10 kbps ~ 1 Mbps
- 2500 Vrms photo couple isolation on the CAN bus
- Built-in jumper to select 120 Ω terminal resistor
- 3 kV galvanic isolation
- 8 independent CAN channels
- Direct memory mapping to the CAN controller
- LabView/InduSoft driver
- Driver support Windows XP/7/8/10, Linux



Introduction

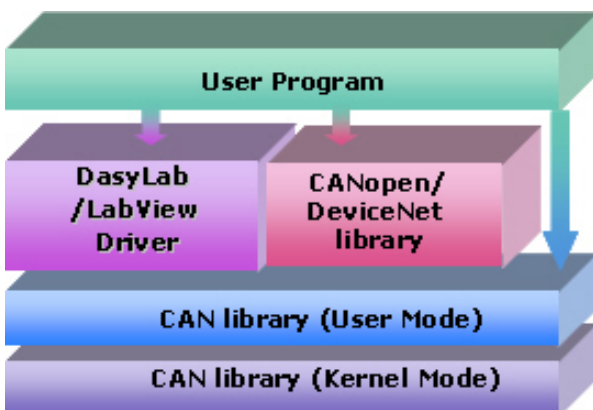
The PISO-CAN800U-D can represent an economic solution of an active CAN board with universal PCI bus. It has eight CAN bus communication ports and has the ability to cover a wide range of CAN applications. Besides, PISO-CAN800U-D uses the new CAN controller Phillips SJA1000T and transceiver TJA1042, which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

Utility

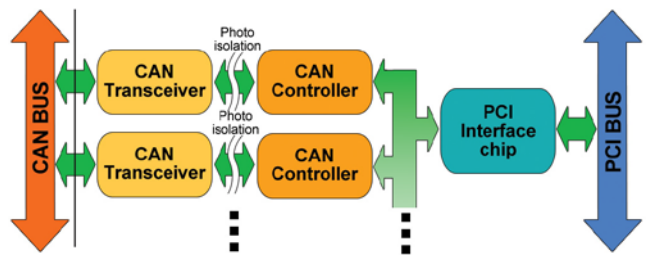


- Can be a CAN system monitor tool with CAN cards
- Can test CAN cards
- Send/Receive/Record CAN messages
- Provide cyclic transmission function
- Record the CAN messages with filter ID with time stamp

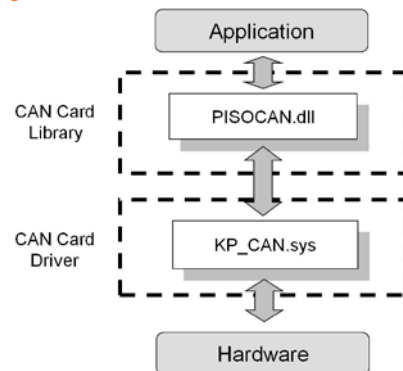
Software Layer



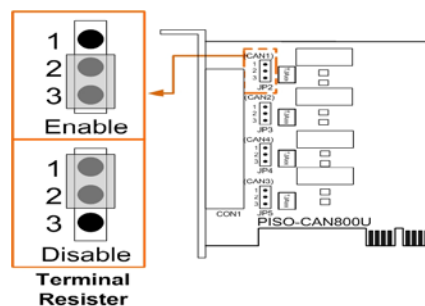
Hardware architecture



Library Structure



Terminal Resistor

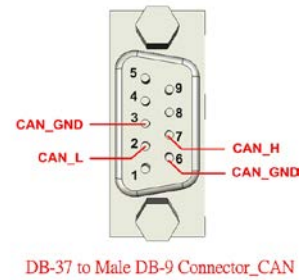


Pin Assignments

Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.
CAN5_GND	19	CAN5_L	37	CAN1_GND	19
CAN5_H	18	N.C.	36	CAN1_H	18
CAN5_GND	17	N.C.	35	CAN1_GND	17
N.C.	16	N.C.	34	N.C.	16
N.C.	15	N.C.	33	N.C.	15
CAN6_L	14	CAN6_GND	34	CAN2_L	14
N.C.	13	CAN6_H	32	N.C.	13
N.C.	12	CAN6_GND	31	N.C.	12
N.C.	11	N.C.	30	N.C.	11
CAN8_GND	10	N.C.	29	CAN4_GND	10
CAN8_H	09	CAN8_L	28	CAN4_H	09
CAN8_GND	08	N.C.	27	CAN4_GND	08
N.C.	07	N.C.	26	N.C.	07
N.C.	06	N.C.	25	N.C.	06
CAN7_L	05	CAN7_GND	24	CAN3_L	05
N.C.	04	CAN7_H	23	N.C.	04
N.C.	03	CAN7_GND	22	CAN3_H	22
N.C.	02	N.C.	21	N.C.	21
N.C.	01	N.C.	20	N.C.	20
N.C.		N.C.		N.C.	

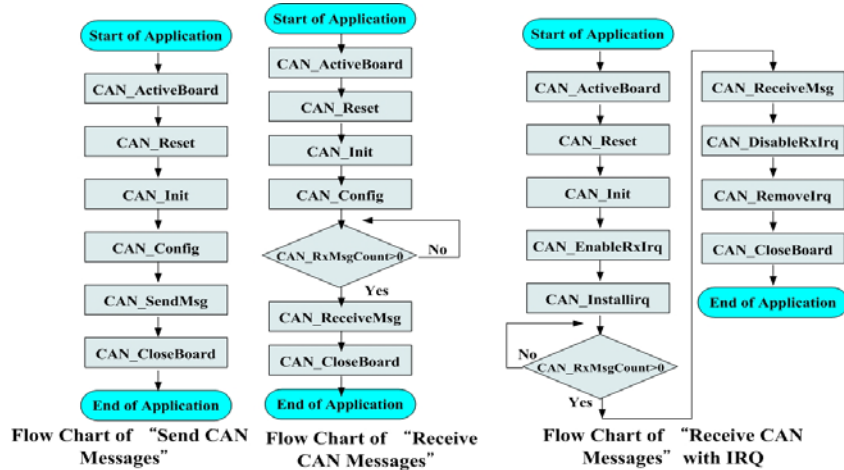
37-Pin Female D-Sub Connector_CAN (CON2)

37-Pin Female D-Sub Connector_CAN (CON1)



DB-37 to Male DB-9 Connector_CAN

Flow Diagram for Applications



Flow Chart of "Send CAN Messages"

Flow Chart of "Receive CAN Messages"

Flow Chart of "Receive CAN Messages" with IRQ

Hardware Specifications

Bus Interface	
Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, plug and play
CAN Interface	
Controller	NXP SJA100T 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 ~ 5.4.0, 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

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
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