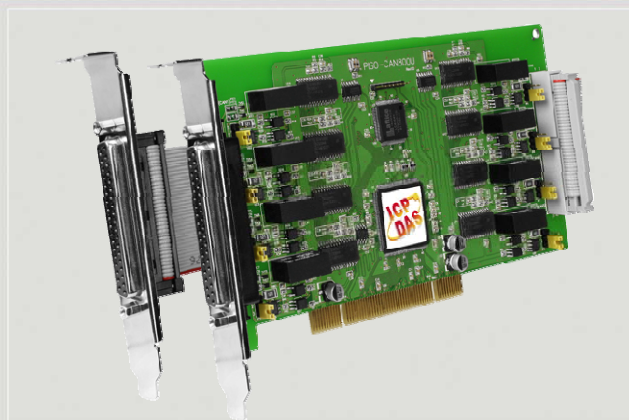
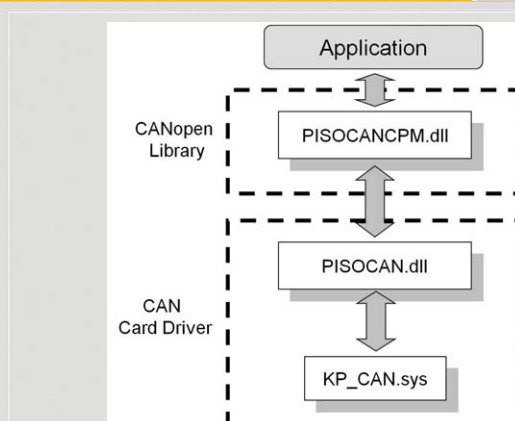


CANopen Library for PISO-CAN800U-D



PISO-CAN800U-D



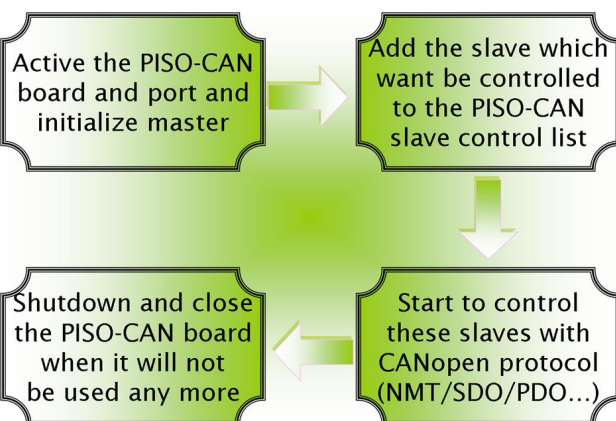
Library Structure

In order to apply the CANopen protocol on the PISO-CAN800U-D easily, we provides the CANopen application tools, which are CANopen library and CANopen diagnosis application tool. If users want to develop an industrial application with CANopen protocol, the CANopen library is very helpful to be applied with the PISO-CAN800U-D as the CANopen devices with the features of CANopen protocol. Besides, if the monitor and diagnosis of CANopen message on the CAN network is considered, the CANopen diagnostic application tool can be used to achieve this purpose.

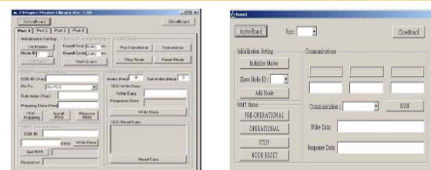
Features

- NMT: Master
- CANopen Version: DS-301 v4.02
- Error Control: Support Guarding protocol
- Support EMCY receiving
- Provide dynamic PDO functions
- Support SYNC protocol
- Transmission type of PDO is supported
- Support SDO download/upload segment protocol
- Support SDO download/upload block protocol
- Driver support Windows 2K/XP/7

Design Flowchart



Demos Features



About the CANopen library, we provide VC++/VB/BCB demos for users to use. In these demos, all functions are used and users can refer these functions to design their CANopen application.

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	CAN6_GND	33	CAN2_GND	15
CAN6_L	14	CAN6_H	32	CAN2_H	14
N.C.	13	N.C.	31	CAN2_GND	13
N.C.	12	N.C.	30	N.C.	12
N.C.	11	N.C.	29	N.C.	11
CAN6_GND	10	CAN6_L	28	CAN6_H	10
CAN6_H	09	N.C.	27	N.C.	09
CAN6_GND	08	N.C.	26	N.C.	08
N.C.	07	N.C.	25	N.C.	07
N.C.	06	CAN7_GND	24	CAN7_GND	06
CAN7_L	05	CAN7_H	23	CAN7_GND	05
N.C.	04	N.C.	22	CAN7_GND	04
N.C.	03	N.C.	21	N.C.	03
N.C.	02	N.C.	20	N.C.	02
N.C.	01	N.C.	19	N.C.	01

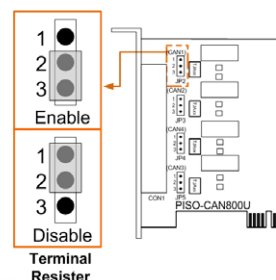
37-Pin Female D-Sub Connector_CAN (CON2)

37-Pin Female D-Sub Connector_CAN (CON1)



DB-37 to Male DB-9 Connector_CAN

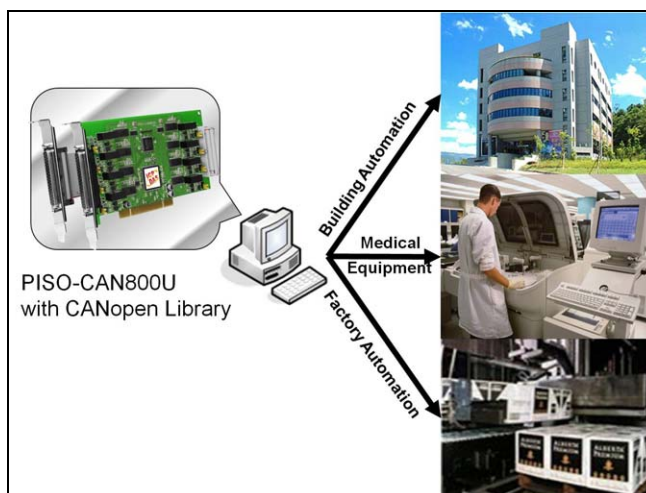
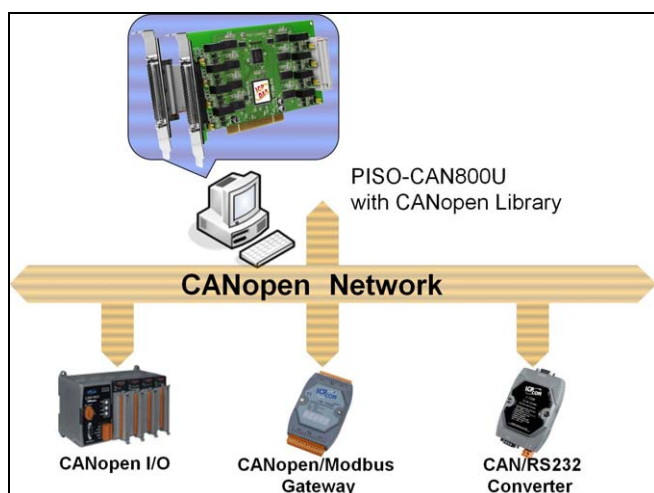
Terminal Resistor & External Port



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)
Isolation	3000 V _{DC} for DC-to-DC, 2500 V _{rms} for photo-couple
Terminal Resistor	Switch for 120 Ω terminal resistor
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Software	
Driver	Windows 2K/XP/7
Library	VB 6.0, VC++ 6.0, BCB 5.0.
Power	
Power Consumption	800 mA @ 5 V
Environment	
Operating Temp.	0 ~ 60 $^{\circ}\text{C}$
Storage Temp.	-20 ~ 70 $^{\circ}\text{C}$
Humidity	5 ~ 85% RH, non-condensing
Dimensions	193mm x 22mm x 93mm (W x L x H)

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
CNT-CAN	CAN bus Connector
CA-0910-C	9-pin Female D-sub & 3-wire CAN bus cable (1M)
CA-4002	37-pin Male D-sub connector with plastic cover.
CA-4037W	40-pin flat & D-sub 37-pin Female cable 24 cm Cable
CA-4037B	40-pin flat & D-sub 37-pin Female cable 24 cm Cable
CA-9-3705	DB-37 Male (D-sub) to 4-Port DB-9 Male (D-sub) cable. 0.3 M (90 $^{\circ}$)
CA-9-3715D	DB-37 Male (D-sub) to 4-Port DB-9 Male (D-sub) cable. 1.5 M (180 $^{\circ}$)
SG-770	7/14 channel Surge Protector