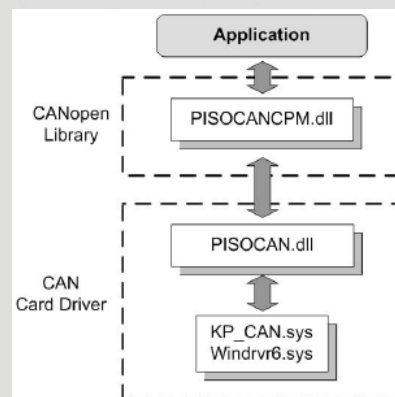


## CANopen Library for PISO-CAN200/400-D/T



PISO-CAN200/400-D/T



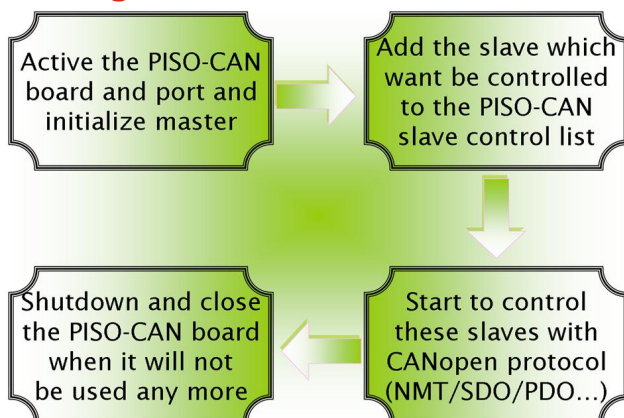
Library Structure

In order to apply the CANopen protocol on the PISO-CAN/200/400 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-CAN200/400 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.

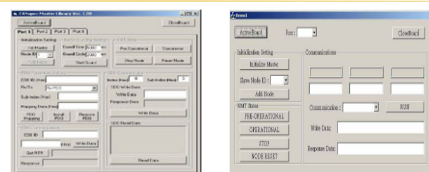
## Features

- NMT: Master
- CANopen Version: DS-301 v4.01
- Device Profile: DS-401
- 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 98/ME/NT/2K/XP

## Design Flowchart

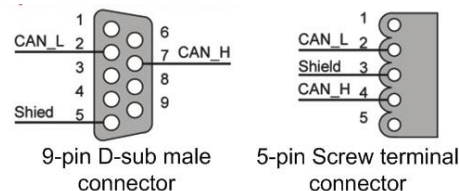


## Demos Features

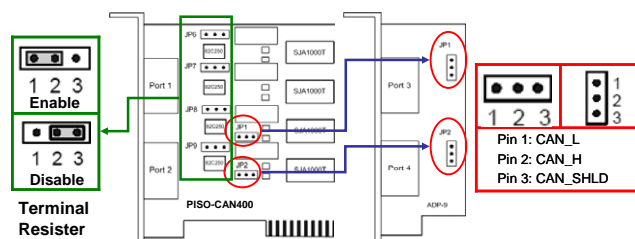


About the CANopen library, we provide VC++/VB/BCB demos for users to refer to. In these demos, all functions are used and users can refer these functions to design CANopen application himself. There also has detailed description of step by step with these demos in the fourth section of user manual. Users can develop their program more easily and quickly to follow the demos.

## Pin Assignments



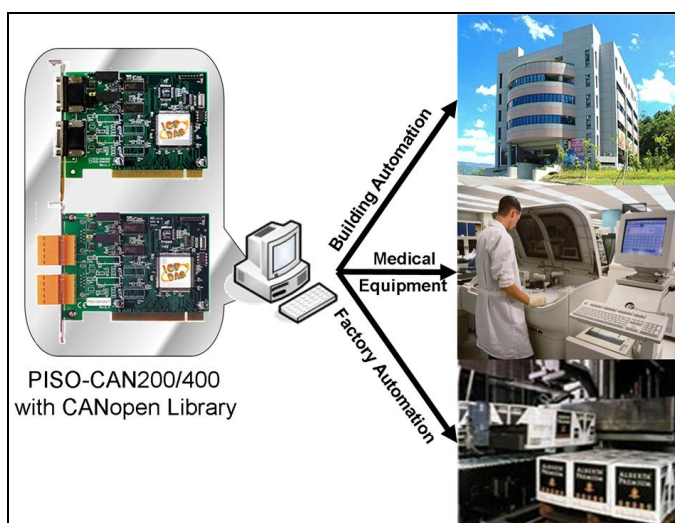
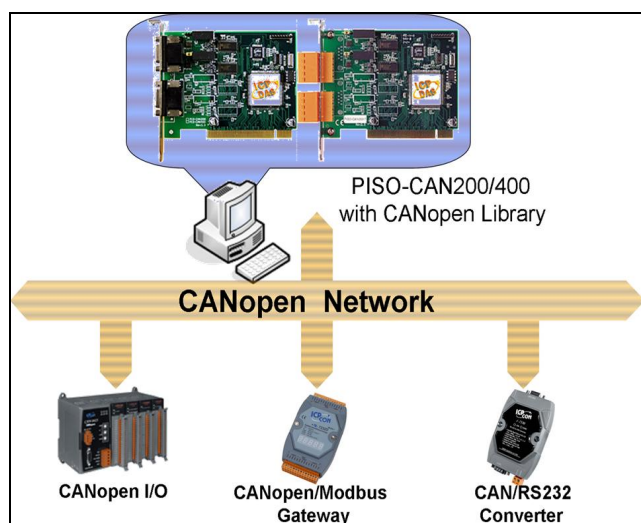
## Terminal Resistor &amp; External Port



## Hardware Specifications

| Item              | PISO-CAN200-D/T   | PISO-CAN400-D/T         |
|-------------------|---|-------------------------|
| Bus Type          | 33MHz 32bit 5V PCI bus (V2.1) plug and play.                            |                         |
| CAN port          | 2 independent CAN ports   | 4 independent CAN ports |
| CAN Controller    | Phillips SJA1000 CAN Controller with 16MHz                              |                         |
| CAN Transceiver   | Phillips 82C250 CAN Transceiver   |                         |
| CAN Interface     | ISO/IS 11898-2, 5-pin screw terminal connector or 9-pin D-sub connector |                         |
| Signal Support    | CAN_H: CAN high bus line, CAN_L: CAN low bus line                       |                         |
| CAN specific      | Compatible with CAN specification 2.0 parts A and B.                    |                         |
| Transfer Rate     | Programmable transfer rate up to 1 Mbps                                 |                         |
| Terminal Resister | 120Ω terminal resister selected by switch                               |                         |
| Driver Support    | Windows 98/ME/NT/2K/XP  |                         |
| Isolated          | 2500Vrms on CAN side  |                         |
| Power Consumption | + 5V@ 250 mA  | + 5V@ 300 mA            |
| Operating Temp.   | 0°C ~60°C   |                         |
| Storage Temp.     | -20°C ~80°C   |                         |
| Humidity          | 0~90% non-condensing  |                         |
| Dimensions        | 130mm x 110mm (W x H)   |                         |

## Applications



## Ordering Information

|                      |  |
|----------------------|--|
| <b>PISO-CAN200-D</b> | 2-Port Isolated Protection CAN Communication Board with 9-pin D-sub connector.   |
| <b>PISO-CAN200-T</b> | 2-Port Isolated Protection CAN Communication Board with 5-pin screw terminal connector.  |
| <b>PISO-CAN400-D</b> | This product includes a 2-port isolated protection CAN card and 2-port ADP-9-D (expansion daughter board). The connector of each CAN port is 9-pin D-sub connector.            |
| <b>PISO-CAN400-T</b> | This product includes a 2-port isolated protection CAN card and 2-port ADP-9-T (expansion daughter board). The connector of each CAN port is 5-pin screwed terminal connector. |

|                |   |
|----------------|---|
| <b>ADP-9-D</b> | 2-port CAN expansion daughter board with D-sub 9-pin connectors.      |
| <b>ADP-9-T</b> | 2-port CAN expansion daughter board with screwed terminal connectors. |