# CAN Series Products
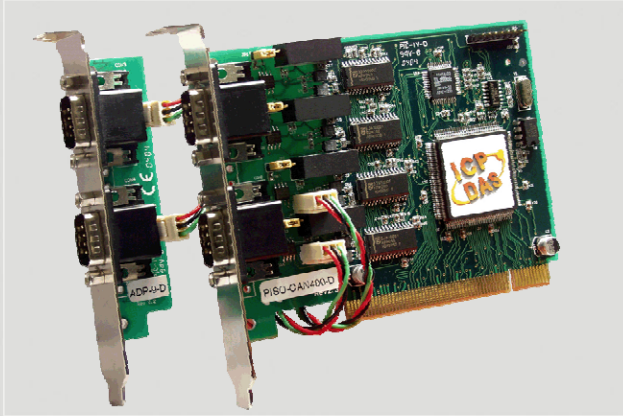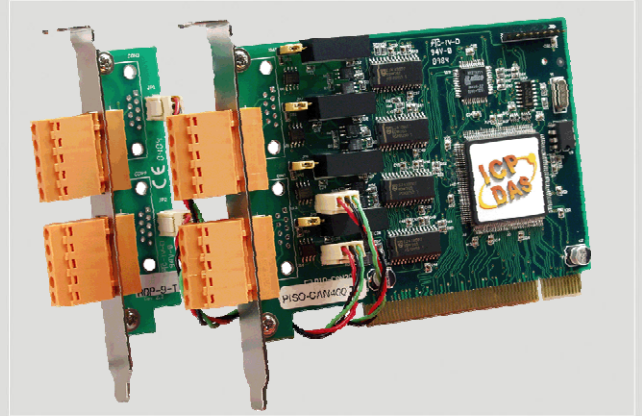
## PCI CAN Communication Card

CE FC

### PISO-CAN400-D

### PISO-CAN400-T

The PISO-CAN400 can represents an economic solution of an active CAN board. It has four independent CAN bus communication ports with 5-pin screw terminal connector or 9-pin D-sub connector, and has the ability to cover a wide range of CAN applications. Besides, PISO-CAN400 uses the new CAN controller Phillips SJA1000T and transceiver 82C250, which provide bus arbitration, error detection with auto correction and re-transmission function. It can be installed in a 5V 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 bard from 10K to 1M bps
- 2500 Vrms photo couple isolation on the CAN bus
- Comply with 33MHz 32-bit 5V PCI bus
- Built-in jumper to select 120 ohm terminal resister
- 3KV galvanic isolation
- 4 independent CAN channels
- Direct memory mapping to the CAN controller
- Provide VB, VC++, Delphi, BC++ demos
- LabView/DASYLab driver
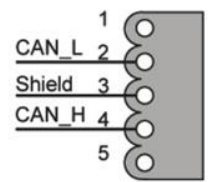- Driver support Windows 98/ME/NT/2K/XP and Linux

## Software Laver



## Hardware architecture
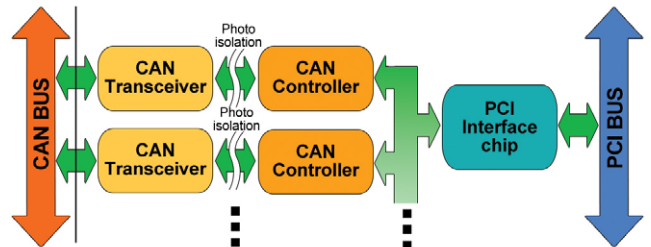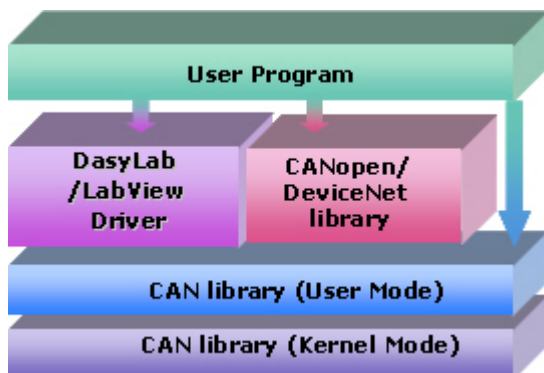


## Pin Assignments
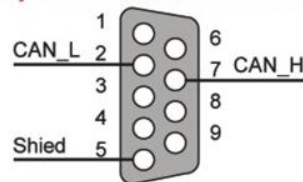


9-pin D-sub male connector

5-pin Screw terminal connector

## Terminal Resistor



Pin 1: CAN_L
Pin 2: CAN_H
Pin 3: CAN_SHLD
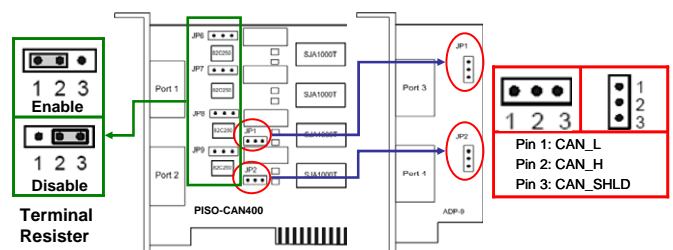
## Hardware Specifications

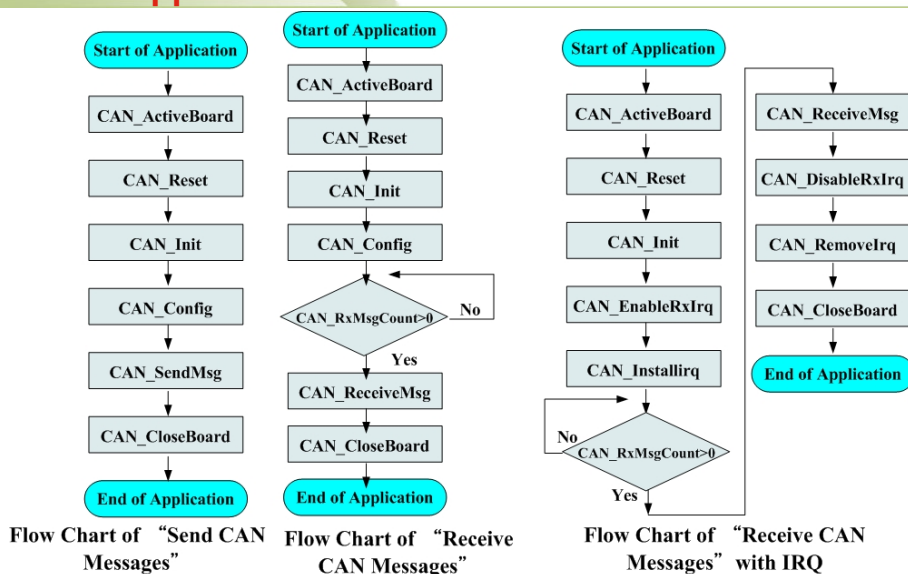| Item | PISO-CAN400-D | PISO-CAN400-T |
|---|---|---|
| CAN connector | 9-pin D-sub connector | 5-pin Screw Terminal Connector |
| Bus Type | 33MHz 32bit 5V PCI bus (V2.1) plug and play. | |
| CAN port | 4 independent CAN ports | |
| CAN Controller | Phillips SJA1000 CAN Controller with 16MHz | |
| 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 jumper | |
| Driver Support | Windows 98/ME/NT/2K/XP, Linux | |
| Isolated | 2500Vrms on CAN side | |
| Power Consumption | + 5V@ 300 mA | |
| Operating Temp. | 0℃ to 60℃ | |
| Storage Temp. | -20℃ to 80℃ | |
| Humidity | 0~90% non-condensing | |
| Dimensions | 130mm x 110mm (W x H) | |

## Utility
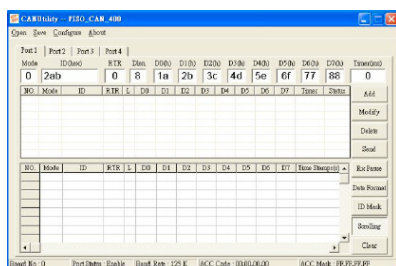


- Can be a CAN system monitor tool with PISO-CAN200/400 cards
- Can test PISO-CAN200/400 cards
- Send/Receive/Record CAN messages.
- Provide cyclic transmission function
- Record the CAN messages with filter ID with time stamp

## Flow Diagram for Applications



Flow Chart of "Send CAN Messages"

Flow Chart of "Receive CAN Messages"

Flow Chart of "Receive CAN Messages" with IRQ

## Ordering Information

| | |
|---|---|
| PISO-CAN400-D | 4-Port Isolated Protection CAN Communication Board with 9-pin D-sub connector |
| PISO-CAN400-T | 4-Port Isolated Protection CAN Communication Board with 5-pin Screw Terminal Connector |