

## Features

- Embedded 32-bit microprocessor
- NXP 82C250 CAN transceiver
- Fully compatible with ISO 11898-2 standard
- Supports both CAN 2.0A and CAN 2.0B specifications
- Storage Timestamp with a precision of at least ±1 ms DIP switch to select board number
- Dual port RAM communication mechanism
- Embedded RTC (real time clock)

# PISO-CM200U-D PISO-CM200U-T

Intelligent 2-port PCI CAN Communication Card

## Introduction

The PISO-CM200U represents a very powerful and economic solution of an active CAN board with two CAN channels, covering a wide range of CAN applications. The 32-bit on-board microcontroller allows, among many other features, the filtering, preprocessing, and storage (with timestamp) of CAN messages as well as the real-time transmission of CAN messages. Under the effect of the powerful microcontroller, this card can be made for two CAN controllers without losing data, even in systems with a high bus load. In addition, users can develop their own CAN application on PC side by using the PISO-CM200U library. When the PISO-CM200U is active, the data exchange between users' application and CAN Bus firmware is performed via the memory mapping method of the PISO-CM200U.

## Hardware Specifications

| Model Name | PISO-CM200U-D | PISO-CM200U-T |
|---|---|---|
| **Hardware** | | |
| CPU | 32-bit MCU | |
| DPRAM | 16 KB | |
| RTC (Real Time Clock) | Yes | |
| **Bus Interface** | | |
| Type | Universal PCI, 5 V, 33 MHz, 32-bit, plug and play | |
| Board No. | Configurable via DIP switch | |
| **CAN Interface** | | |
| Controller | BOSCH C_CAN | |
| Transceiver | NXP 82C250 | |
| Channel number | 2 | |
| Connector | 9-pin Male D-Sub | 5-pin screw terminal block |
| 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 VDC for DC-to-DC, 3000 Vrms for photo-couple | |
| Terminal Resistor | Jumper for 120 Ω terminal resistor | |
| **LED Indicators/Display** | | |
| System LED Indicators | Yes, two (round) as Communication Indicators, Rx/Tx, ERR | |
| **Software** | | |
| Driver | Windows XP/7/8/10 | |
| Library/Demo Languages | C#.Net, VB.Net, VC++.Net | |
| **Power** | | |
| Power Consumption | 800 mA @ 5 V | |
| **Mechanism** | | |
| Dimensions (L x W x D) | 150 mm x 121 mm x 22 mm | |
| **Environment** | | |
| Operating Temperature | 0 ~ 60 °C | |
| Storage Temperature | -20 ~ 70 °C | |
| Humidity | 5 ~ 85% RH, non-condensing | |



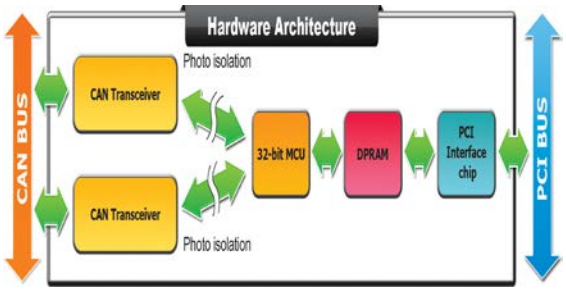
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## Firmware Features

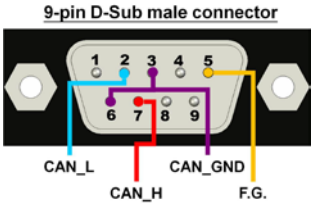


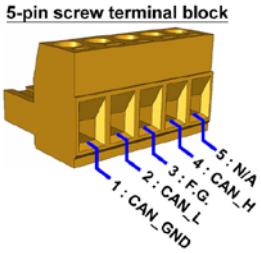

- Drivers provided for Windows XP/7/8/10
- Demos and libraries provided for C#.Net, VB.Net and VC++.Net
- Transmission/reception buffer for up to 256 CAN messages
- Cyclic transmission precision is ±1ms
- Allows a maximum of 5 sets of cyclic transmission messages
- Cyclic transmission message precision: ±1ms
- Easy to update firmware

## Hardware Architecture

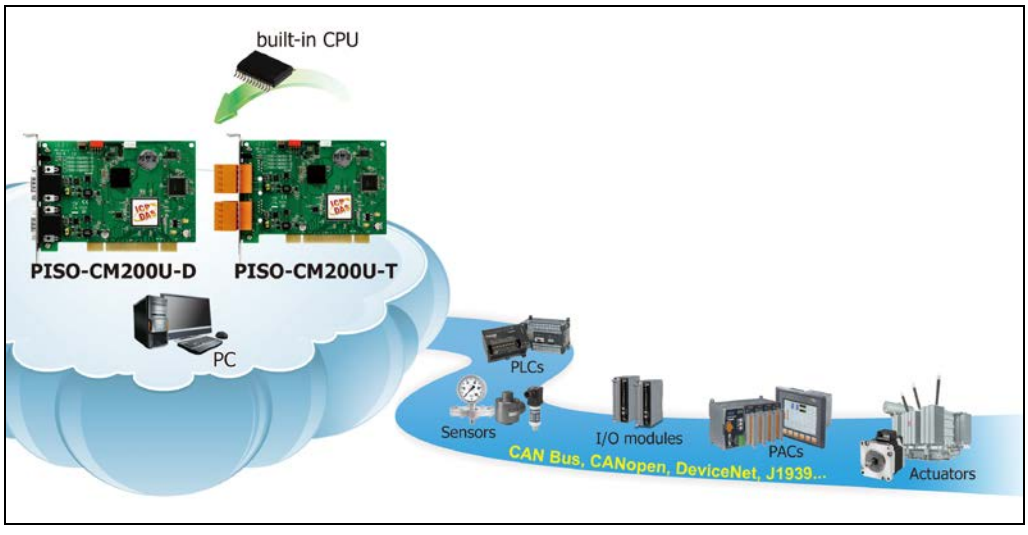



## Pin Assignments




## Applications




## Ordering Information

| | |
|---|---|
| **PISO-CM200U-D CR** | Intelligent CAN interface with two Isolated Protection CAN Communication Port and 9-Pin D-sub Connector for universal PCI bus systems (RoHS) |
| **PISO-CM200U-T CR** | Intelligent CAN interface with two Isolated Protection CAN Communication Port and 5-Pin Screw Terminal Connector for universal PCI bus systems (RoHS) |



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