

CANopen Series Products

1 Port Intelligent CANopen Master Universal PCI Board (FC





PISO-CPM100U-D



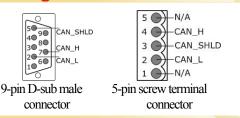
PISO-CPM100U-T

The PISO-CPM100U has followed the CiA CANopen specification DS-301 V4.02. With the built-in 80186 80M Hz CPU, this card can be applied in high transmission applications. The 16-bit on-board microcontroller with real-time O.S., MiniOS7, allows many features, such as real-time message transmission and reception, filtering, preprocessing, and storage of CAN messages. It supports the timestamp of PDO message with at least 1 ms precision. Assorted with the free tool (CPM Utility), users can easily manage and integrate with CANopen industrial devices.

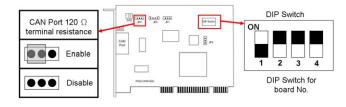
Features

- NMT: Master
- CANopen Version: DS-301 v4.02
- Error Control: Support Guarding and Heart beat protocol
- Support EMCY receiving
- Provide dynamic PDO functions
- Provide 5 sets of SYNC cyclic transmission
- Transmission type of PDO is supported
- Support Multi-Master to Single-Slave architecture
- Auto select with expedition mode or segment mode
- Support load EDS file
- Support Windows 2K/XP

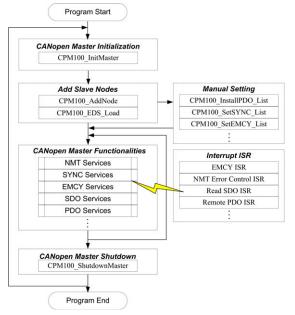
Pin Assignments



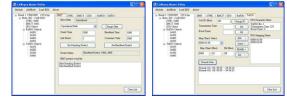
Terminal Resister & DIP Switch



Design Flowchart



Demos Features



The software utility can easily to access the I/O data of all the slave devices. The users can monitor the input data of the specific slave device and change the output data to the remote slave device with this utility.





Hardware Specifications

Model Name	PISO-CPM100U-D	PISO-CPM100U-T	
Hardware			
CPU	80186, 80 MHz or compatible		
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB		
Bus Interface			
Туре	Universal PCI supports both 5 V and 3.3 V PCI bus		
Board No.	By DIP switch		
CAN Interface			
Controller	NXP SJA1000T with 16 MHz clock Microprocessor inside with 80186 80 MHz		
Transceiver	NXP 82C250		
Channel number	1		
Connector	9-pin male D-Sub (CAN_L, CAN_SHLD, CAN H, N/A for others)	5-pin screwed terminal block (CAN_L, CAN SHLD, CAN H, N/A for others)	
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M		
Transmission Distance	Depend on baud rate (for example, max. 1000 m at 50 kbps)		
Isolation	3000 V _{DC} for DC-to-DC, 2500 Vrms for photo-couple		
Terminator Resistor	Jumper for 120 Ω terminator resistor		
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B		
Protocol	CANopen DS-301 ver4.02, DS-401 ver2.1		
LED			
Round LED	Green LED, Red LED		
Software			
Driver	Windows 2K/XP		
Library	VB 6.0, VC++ 6.0, BCB 6.0		
Power			
Power Consumption	300 mA @ 5 V		
Mechanism			
Dimensions	138 mm x 22mm x 105 mm (W x L x H)		
Environment			
Operating Temp.	0 ~ 60 ℃		
Storage Temp.	-20 ~ 70 °C		
Humidity	5 ~ 85% RH, non-condensing		

Application





Ordering Information

PISO-CPM100U-D	1 Port Intelligent CANopen Master Universal PCI Board with D-sub 9-pin male connector
PISO-CPM100U-T 1 Port Intelligent CANopen Master Universal PCI Board with 5-pin screw terminal connector	