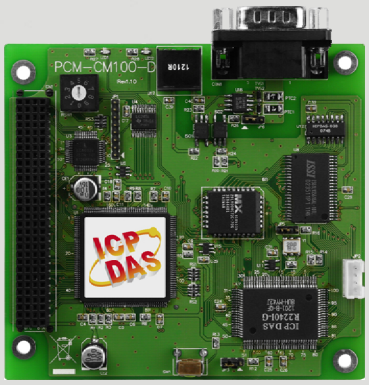
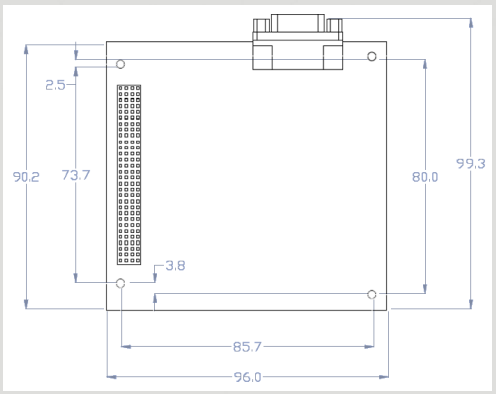
CANopen Series Products

Intelligent CANopen Master PCI-104 Communicaiton Board



PCM-CPM100-D



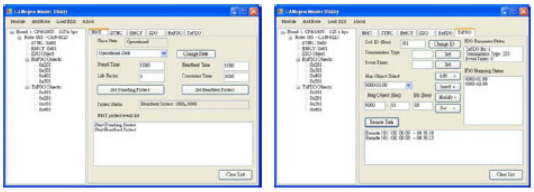
Dimensions

The PCM-CPM100-D has followed the CiA-301 V4.02 CANopen specification. With the built-in 80186 80MHz 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 message. 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

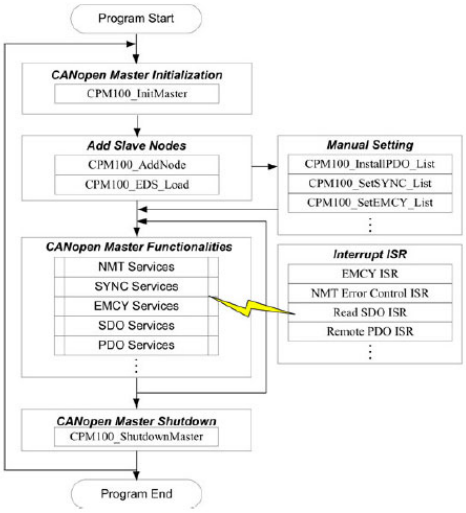
- NMT: Master
- CANopen Version: CiA-301 v4.02
- Error Control: Support Guarding protocol
- Support EMCY receiving
- Provide dynamic PDO functions
- Provide 5 sets of SYNC cyclic transmission
- Transmission type of PDO is supported
- Support Multi-Master to Single-Slave architecture
- Auto select with expedition mode or segment mode
- Support Windows 98/ME/NT/2K/XP

Utility Features

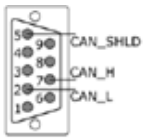


The software utility can easily to access the I/O data of all the slave devices. The users can monitor the input data of the specific slave device and change the output data to the remote slave device with this utility. Besides, the utility also can save the entire message that is received by PCM-CPM100-D to a text file to help user to analyze the messages.

Design Flowchart

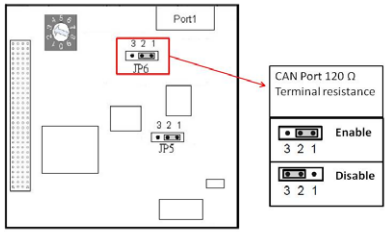


Pin Assignments



9-pin D-sub male connector

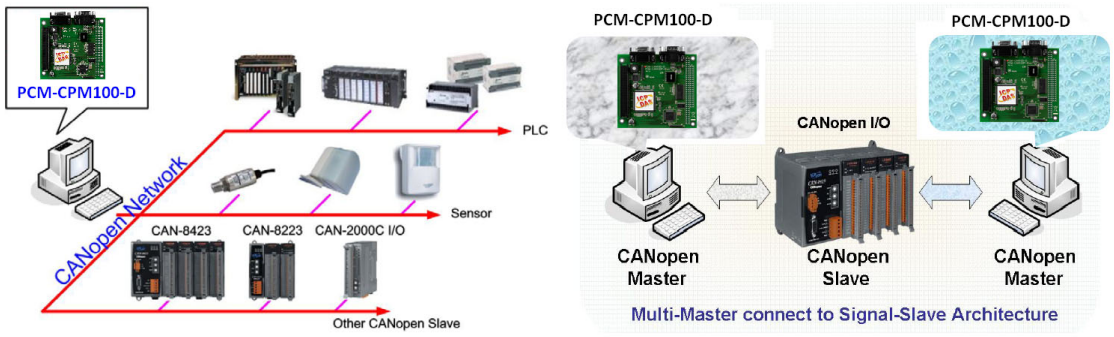
Terminal Resister & DIP Switch



Hardware Specifications

Hardware	
CPU	80186, 80MHz or compatible
SRAM/Flash/EEPROM	512KB/512KB/2KB
Bus Interface	
Type	PCI-104 bus, 5V, 33MHz, plug and play.
Board No.	By DIP Switch
CAN Interface	
Controller	NXP SJA1000T with16MHz clock
Transceiver	NXP 82C250
Channel Number	1
Connector	9-pin male D-Sub (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 1000m at 50 kbps)
Isolation	1000 VDC for DC-to-DC, 2500 Vrms for photo-couple
Terminal Resistor	Jumper for 120Ω terminal resistor
Specification	ISO 11898-2, CAN 2.0A and CAN 2.0B
Protocol	CANopen DS-301 ver4.02
LED	
Round LED	Green LED, Red Led
Software	
Driver	Windows 2K/XP
Library	VC++6.0, VC++ 2005, C# 2005, VB.net 2005
Power	
Power Supply	Unregulated +10 ~ +30 VDC
Power Consumption	250 mA @ 5V
Mechanism	
Dimensions	91 mm x 22 mm x 96 mm (W x L x H)
Enviornment	
Operation Temp.	0 ~ 60 ℃
Storage Temp.	-20 ~ 70 ℃
Humidity	5 ~ 85 %RH，non-condensing

Applications



Ordering Information

PCM-CPM100-D	One channel Intelligent PCI-104 CANopen Master Communication Board