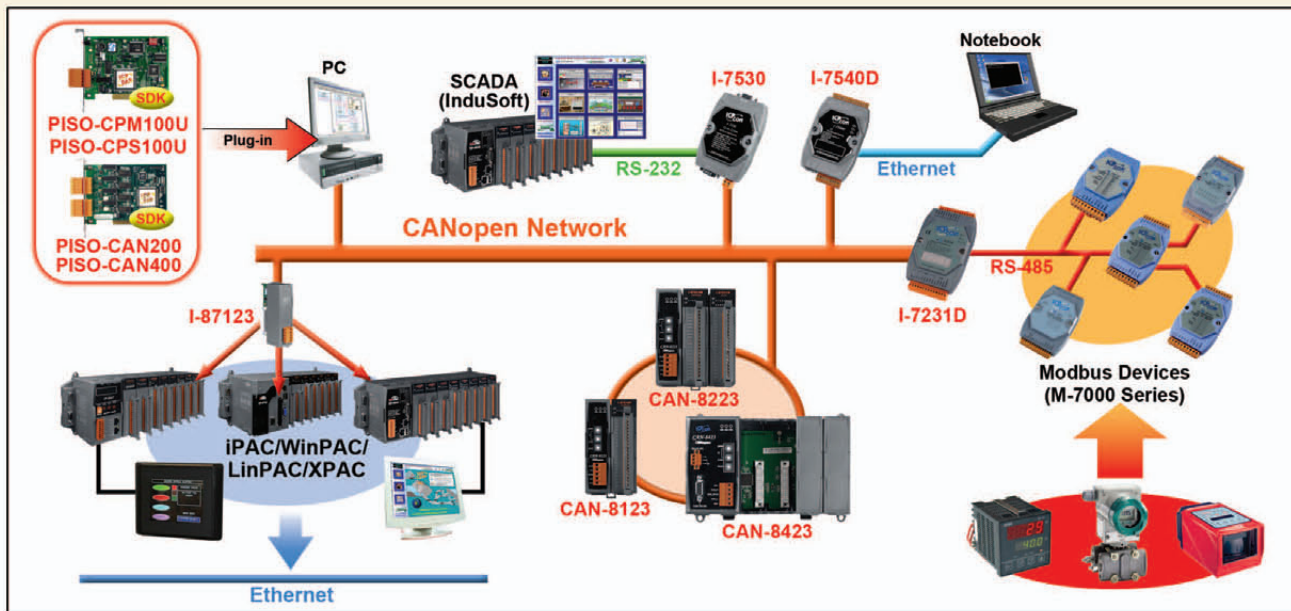


CANopen Series

CANopen is a kind of network protocol based on CAN bus and has been used in various applications, such as vehicles, industrial machines, building automation, medical devices, maritime applications, restaurant appliances, laboratory equipment & research.

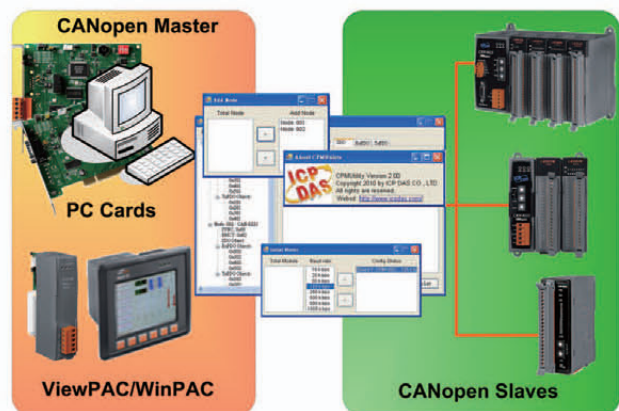
ICP DAS has been developing CAN based-CANopen protocol products for several years. Our products include PCI interface, gateway, CANopen IO and CANopen module for ICP DAS's WinPAC/LinPAC/iPAC. We also help customers to resolve various CANopen network technology problems. In addition, we can provide various CANopen solutions for users.



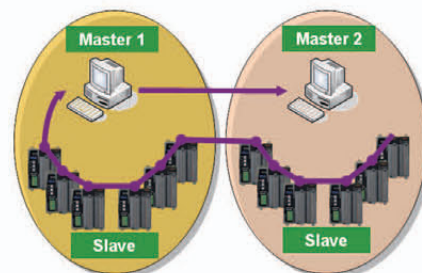
CANopen Series Key Features

- Comply with CANopen DS-301 v4.02
- Slave series comply with CANopen DSP-401 v2.1
- NMT Error Control support Node Guarding and Heartbeat protocol
- Provide Event-triggered, remote-requested, cyclic and acyclic SYNC of PDO mode
- Master series support listen mode
- Master series support Scan-node function
- Support EDS file
- Selectable Node-id (1 ~ 127) and baud rate (10, 20, 50, 125, 250, 500, 800, 1000 kbps)
- Built-in jumper or DIP switch for 120Ω terminator resistor of CAN bus
- Built-in watchdog
- 3000 V_{DC} isolation for DC-to-DC
- 2500 V_{rms} isolation on CAN bus

CANopen Master Utility



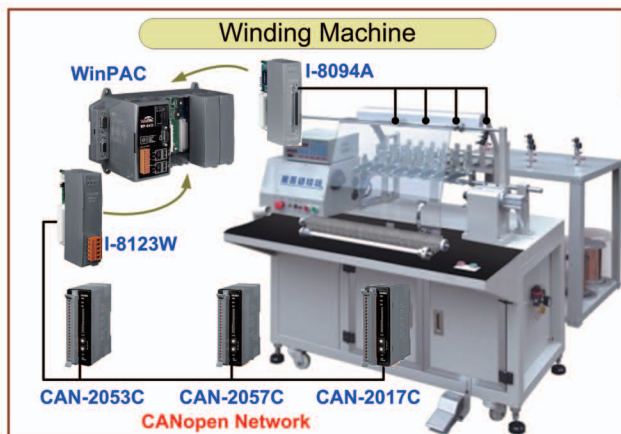
Multi-Master Feature



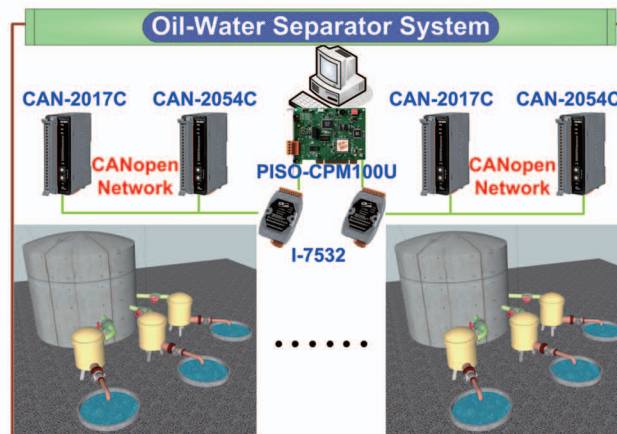
CANopen Series Selection Guide

	Product	Interface	Description	Page
Gateway	I-7231D	CANopen <--> DCON	CANopen Slave/DCON Master Gateway	2-03
	I-7232D	CANopen <--> Modbus RTU	CANopen Slave/Modbus RTU Master Gateway	2-05
	GW-7433D	CANopen <--> Modbus TCP / RTU	CANopen Master/Modbus TCP Server Gateway	2-09
Master	I-7565-CPM	USB <--> CANopen master	USB/CANopen Master Converter	2-07
	I-87123	CANopen master	Built-in CANopen Master Firmware I-87K Module	2-31
	I-8123W	CANopen master	Built-in CANopen Master Firmware I-8K Module	2-33
	PISO-CPM100U	CANopen master	Built-in CANopen Master Firmware Universal PCI board	2-35
	PISO-CAN 200/400	CANopen master	CANopen Master Library for 5 V PCI board	2-37
	PISO-CAN 200U/400U	CANopen master	CANopen Master Library for Universal PCI board	2-37
	PEX-CAN200i	CANopen master	CANopen Master Library for PCI-Express x 1 board	2-37
	PCM-CAN100/200	CANopen master	CANopen Master Library for PCI-104 board	2-37
	PCM-CAN200P	CANopen master	CANopen Master Library for PCI-104+ board	2-37
Slave	CAN-8123	CANopen slave	1 Slot General Purpose CANopen Slave I/O Unit	2-11
	CAN-8223	CANopen slave	2 Slot General Purpose CANopen Slave I/O Unit	2-11
	CAN-8423	CANopen slave	4 Slot General Purpose CANopen Slave I/O Unit	2-13
	CAN-2053C	CANopen slave	16-channel Isolated DI Module of CANopen Slave	2-15
	CAN-2057C	CANopen slave	16-channel Isolated DO Module of CANopen Slave	2-17
	CAN-2054C	CANopen slave	8-channel DI and 8-channel DO Module of CANopen Slave	2-19
	CAN-2015C	CANopen slave	8-channel RTD Input Module of CANopen Slave	2-21
	CAN-2017C	CANopen slave	8-channel Analog Input Module of CANopen Slave	2-23
	CAN-2018C	CANopen slave	8-channel Thermocouple Input Module of CANopen Slave	2-25
	CAN-2024C	CANopen slave	4-channel Analog Output Module of CANopen Slave	2-27
	CAN-2088C	CANopen slave	PWM Module of CANopen Slave	2-29

Application Stories



When the quality of motors is required to upgrade gradually, the precise and the fast motor equipment is more and more important. The high speed motor winding machine uses I-8123W to monitor and control the distributed I/O data through CANopen network. When the I-8123W gets these input data such as tension sensor, pressure sensor, and so on, the WinPAC will output the CANopen DO and the motion signal to control relay, switch, pneumatic valve, and robot to do the winding. As the CANopen features, fast and safe, it can really improving the speed and quality.



This is an oil-water separator system. The crude oil has several impurities and the majority is water. So we need designed a system to dehydrate crude oil. There are several oil-water separators spread around the control center and hundreds meters distance between each equipment. In the control center, PC receives the data that is sent by every oil-water interface detector through PISO-CPM100U and controls the water outlet valve. If the PISO-CPM100U checks the water, the PC will open the water outlet valve until checks the oil. Now this system has worked in some factories.