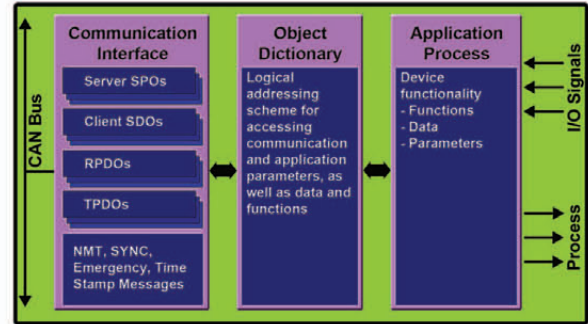


3. CANopen Introduction & Products

CANopen is a CAN-based application layer protocol. Originally, CANopen was designed for motion-oriented machine control networks, such as handling systems, then was developed as a standardized embedded network with highly flexible configuration capabilities. By now it is used in many various fields, such as medical equipment, off-road vehicles, maritime electronics, public transportation, building automation, etc.

CANopen Features

- ✓ Allow multi-master architecture on one bus
- ✓ 10 k, 20 k, 125 k, 250 k, 500 k, 800 k, 1 Mbps baud rate
- ✓ The bus length is from 25 m (1 Mbps) to 5 km (10 kbps)
- ✓ Easy access to all device parameters
- ✓ Device synchronization
- ✓ Cyclic and event-driven data transfer
- ✓ Up to 128 nodes can be participated in the same CANopen network
- ✓ Support Guarding and Heartbeat protection



Selection Guide

Model Name	Description	Page
CANopen Gateway		
I-7231D	CANopen Slave/DCON Master Gateway	3-2
I-7232D	CANopen Slave/Modbus RTU Master Gateway	
GW-7433D	CANopen Master/Modbus TCP&RTU Slave Gateway	
CANopen Module		
I-7565-CPM	USB to 1-port CANopen Master Converter	3-3
I-87123	CANopen Master/Modbus TCP&RTU Slave Gateway bus	
I-8123W	High Performance Intelligent 1-port CANopen Master Communication Module with Parallel bus	
CANopen Board		
PISO-CPM100U-D	Intelligent 1-port CANopen Master Universal PCI interface Board	3-4
PISO-CPM100U-T		
CANopen Remote I/O Unit		
CAN-8123/8223	1/2 Slot General Purpose CANopen Slave I/O Unit	3-4
CAN-8423	4 Slot General Purpose CANopen Slave I/O Unit	
CANopen Remote I/O Module		
CAN-2053C	CANopen 16-channel Isolated DI Module	3-5
CAN-2057C	CANopen 16-channel Isolated DO Module	
CAN-2054C	CANopen 8-channel DI and 8-channel DO Module	
CAN-2015C	CANopen 8-channel RTD Input Module	3-6
CAN-2017C	CANopen 8-channel Analog Input Module	
CAN-2018C	CANopen 8-channel Thermocouple Input Module	
CAN-2024C	CANopen 4-channel Analog Output Module	
CAN-2088C	CANopen PWM Module	
CANopen Software		
Compact CANopen Library	CANopen Master Library for PISO-CAN / PEX-CAN / PCM-CAN series CAN board	3-7
CANopen Master Utility	CANopen Master Utility for PCI series CAN board and PISO-CPM100U	
CANopen Master InduSoft Driver	CANopen Master InduSoft Driver for PISO-CPM100U and I-7565-CPM	
CANopen Master LabVIEW Driver	CANopen Master LabVIEW Driver for PISO-CPM100U and I-7565-CPM	