

ICP DAS

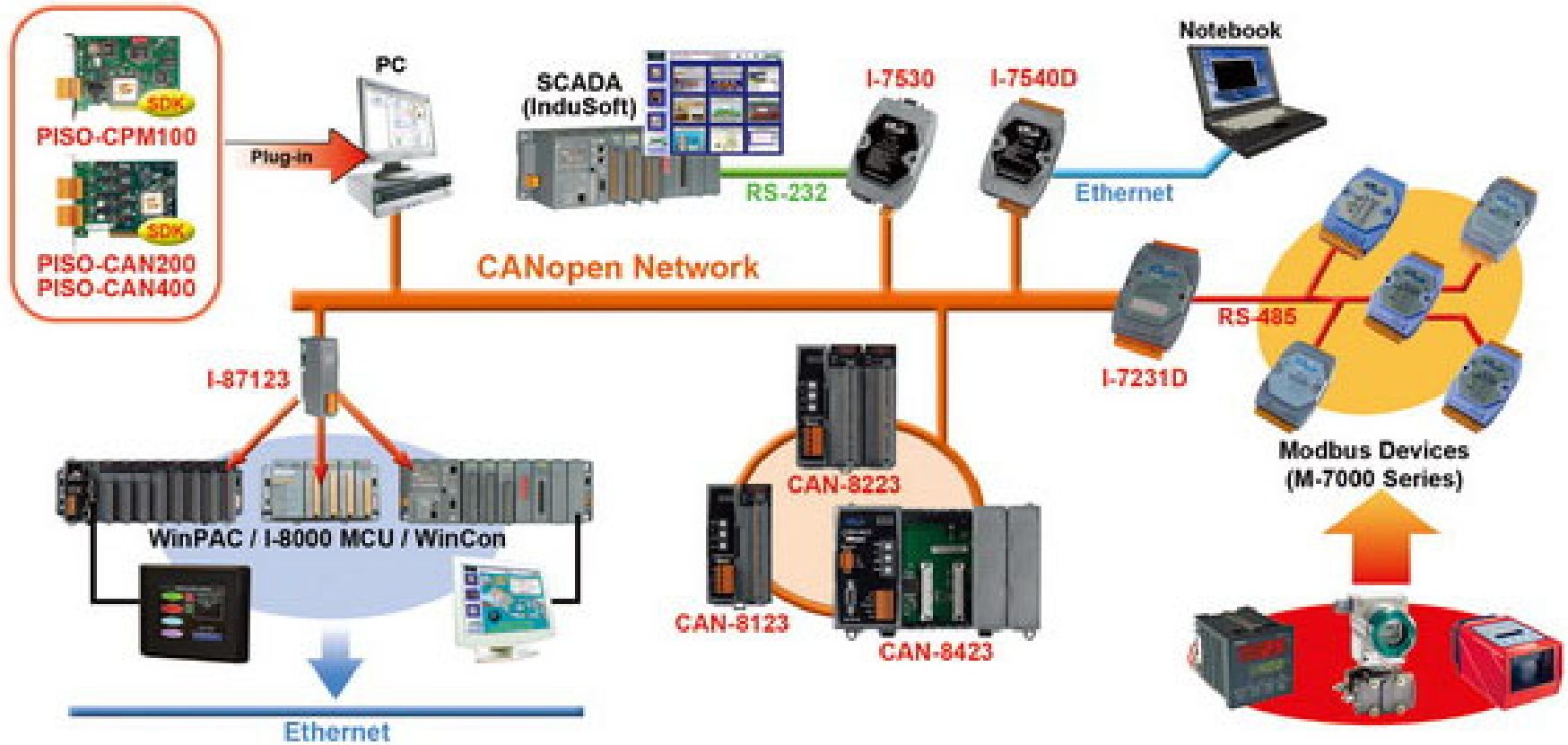
CANopen Total solutions

2013



Industrial Computer Product Data Acquisition System

Application Solutions



CANopen Series in ICP DAS



CANopen Master Solutions

CANopen Master Products		
PC Board + CANopen Master Library	PISO-CAN 200U	2-port CAN bus Universal PCI Board
	PISO-CAN 400U	4-port CAN bus Universal PCI Board
	PEX-CAN 200i	2-port CAN bus PCI-Express Board
	PCM-CAN 100	1-port CAN bus PCI-104 Board
	PCM-CAN 200	2-port CAN bus PCI-104 Board
	PCM-CAN 200P	2-port CAN bus PC-104+ Board
PC Board	PISO-CPM100U	1-port Built-in CANopen Master Firmware Communication Board
PAC	I-87123	1-port CANopen Master I-87K Module
	I-8123W	1-port CANopen Master I-8K Module
USB	I-7565-CPM	USB to CANopen Master Converter



CANopen PC Board Solutions

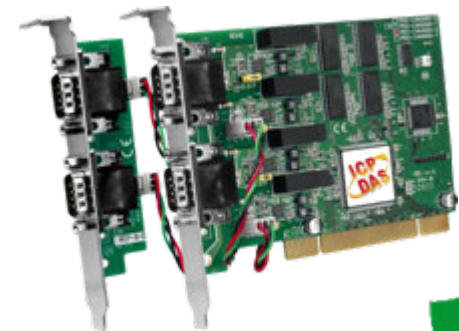
- PISO-CAN200U (2-port CAN + CANopen Master Library)
- PISO-CAN400U (4-port CAN + CANopen Master Library)

Feature :

- Universal PCI Interface.
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



PISO-CAN 200U



PISO-CAN 400U



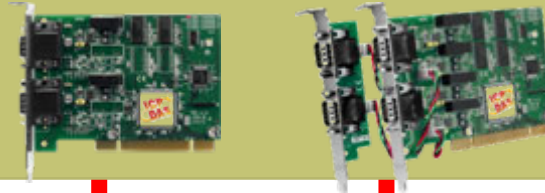
CANopen PC Board Solutions

- PISO-CAN200U (CANopen Master Library)



CANopen Master Library

PISO-CAN Driver



CANopen I/O Devices

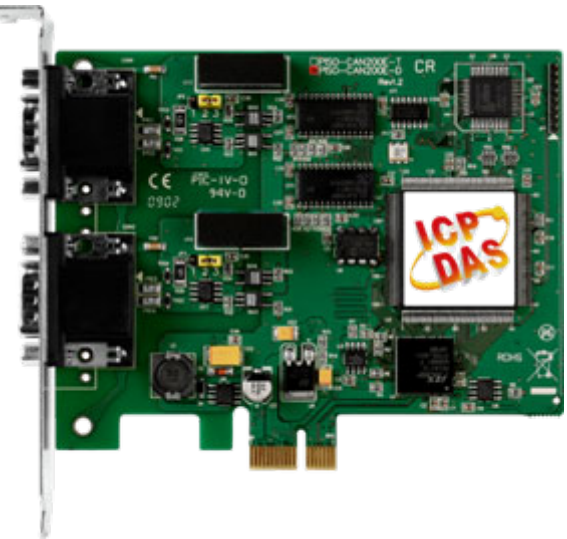


CANopen PC Board Solutions

- **PEX-CAN200i (2-port CAN + CANopen Master Library)**

Feature :

- PCI-Express Interface.
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Provide CPM_Utility and Demos.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



CANopen PC Board Solutions

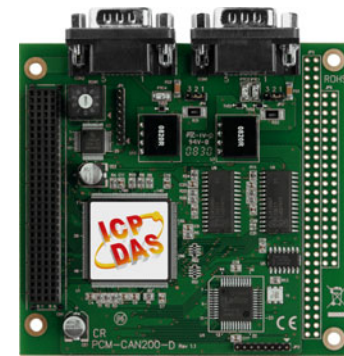
- **PCM-CAN 100 (1-port CAN + CANopen Master Library)**
- **PCM-CAN 200 (2-port CAN + CANopen Master Library)**

Feature :

- PCI-104 interface.
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Provide CPM_Utility and Demos.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



PCM-CAN 100



PCM-CAN 200

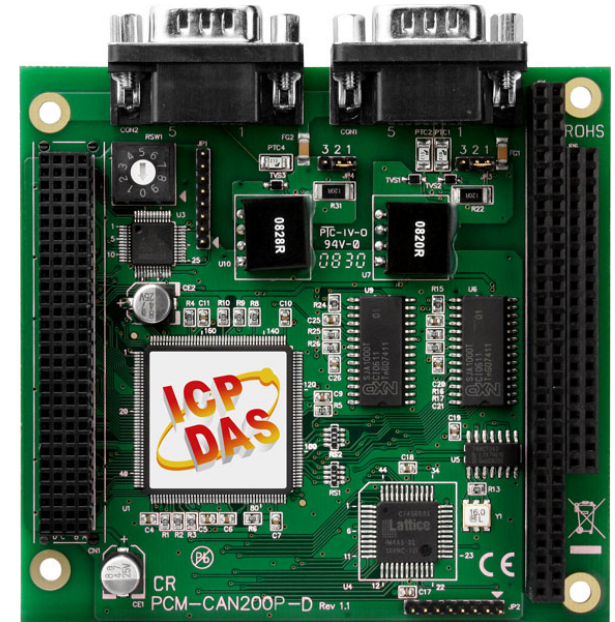


CANopen PC Board Solutions

- **PCM-CAN 200P (2-port CAN + CANopen Master Library)**

Feature :

- PC-104+ interface.
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Provide CPM_Utility and Demos.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



CANopen PC Board Solutions

- **PISO-CPM100U (Built-in CANopen Master Board)**

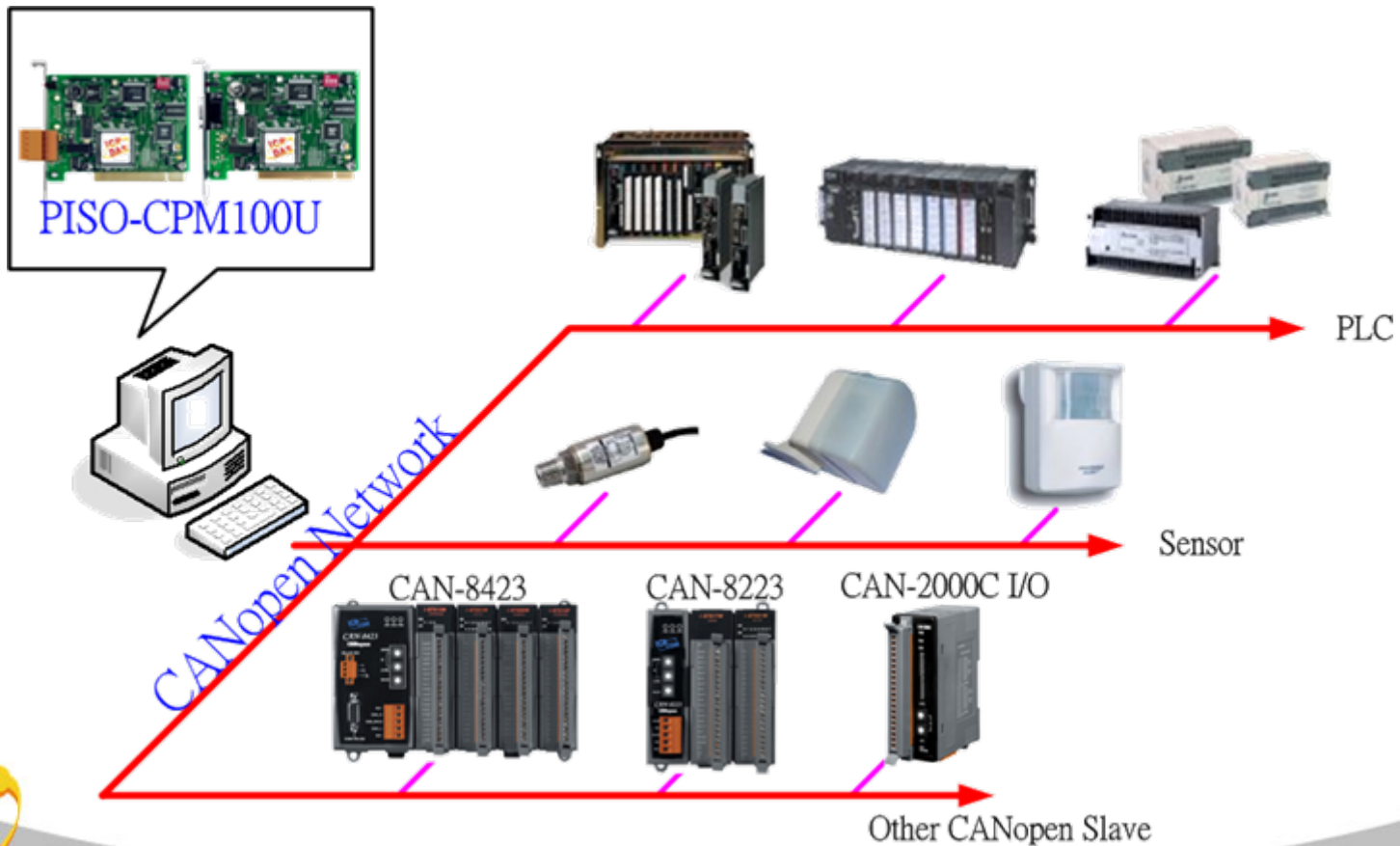
Feature :

- 1-port with universal PCI Interface.
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Provide CPM_Utility and Demos.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



CANopen PC Board Solutions

- PISO-CPM100U (Built-in CANopen Master Board)



CANopen PAC Solutions

- **I-87123 (I-87K CANopen Master Module)**

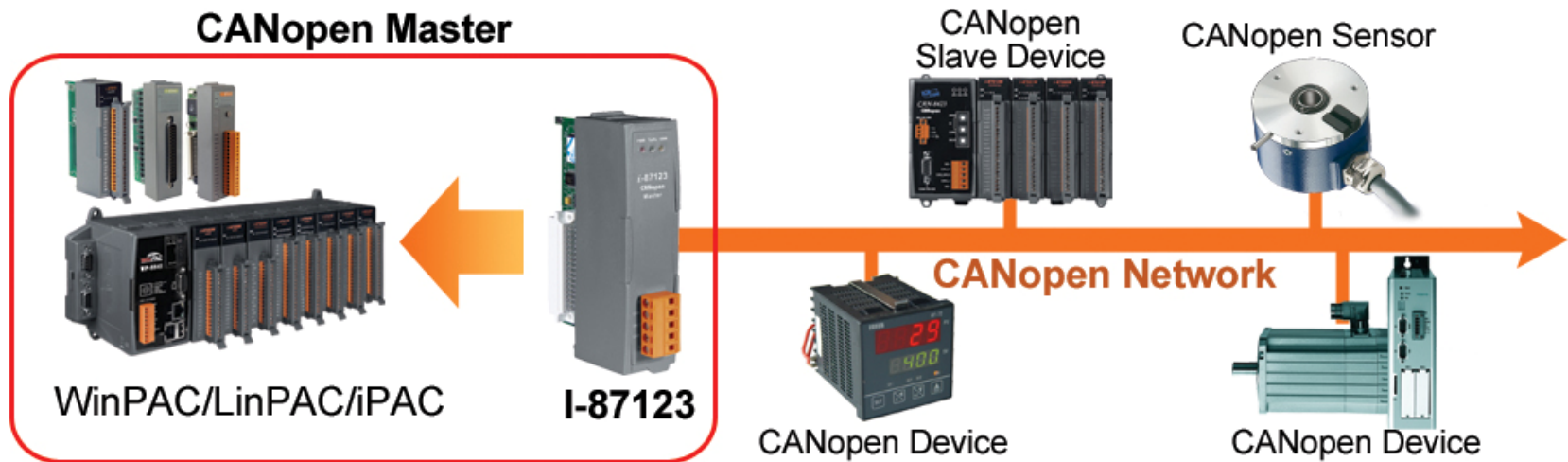
Feature :

- **I-87K serial port communication mechanism.**
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Support XPAC / WinPAC / ViewPAC controller.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



CANopen PAC Solutions

- I-87123 (I-87K CANopen Master Module)



CANopen PAC Solutions

- **I-8123W (I-8K CANopen Master Module)**

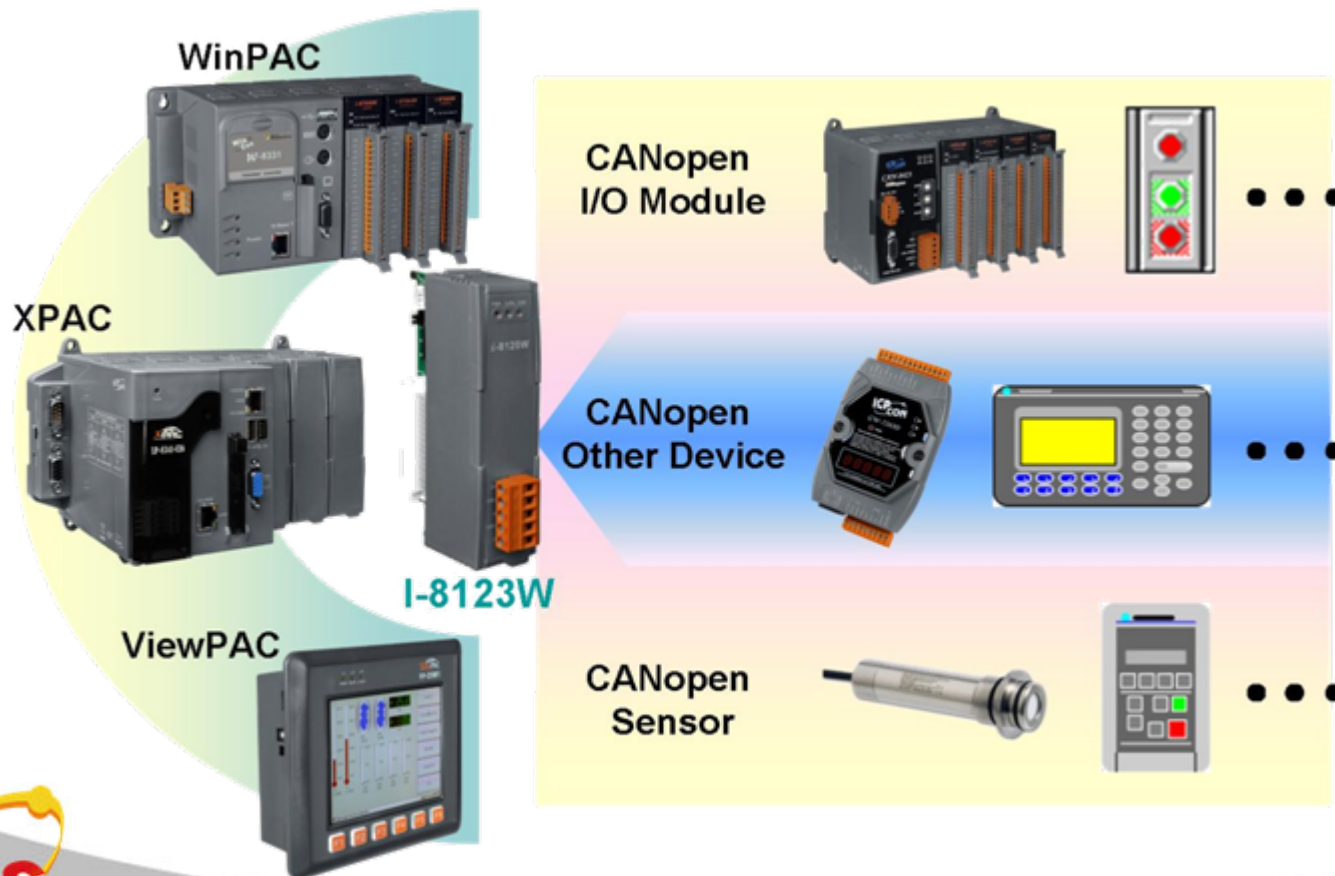
Feature :

- **I-8K parallel port communication mechanism.**
- Standard CANopen specification DS-301
- Support NMT Master.
- Programmable Node ID from 1 ~ 127.
- Programmable bauds : 10 K ~ 1M bps.
- **Support Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- Support XPAC / WinPAC / ViewPAC controller.
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.



CANopen PAC Solutions

- I-8123W (I-8K CANopen Master Module)



CANopen USB Solutions

- **I-7565-CPM (USB / CANopen Master Module)**

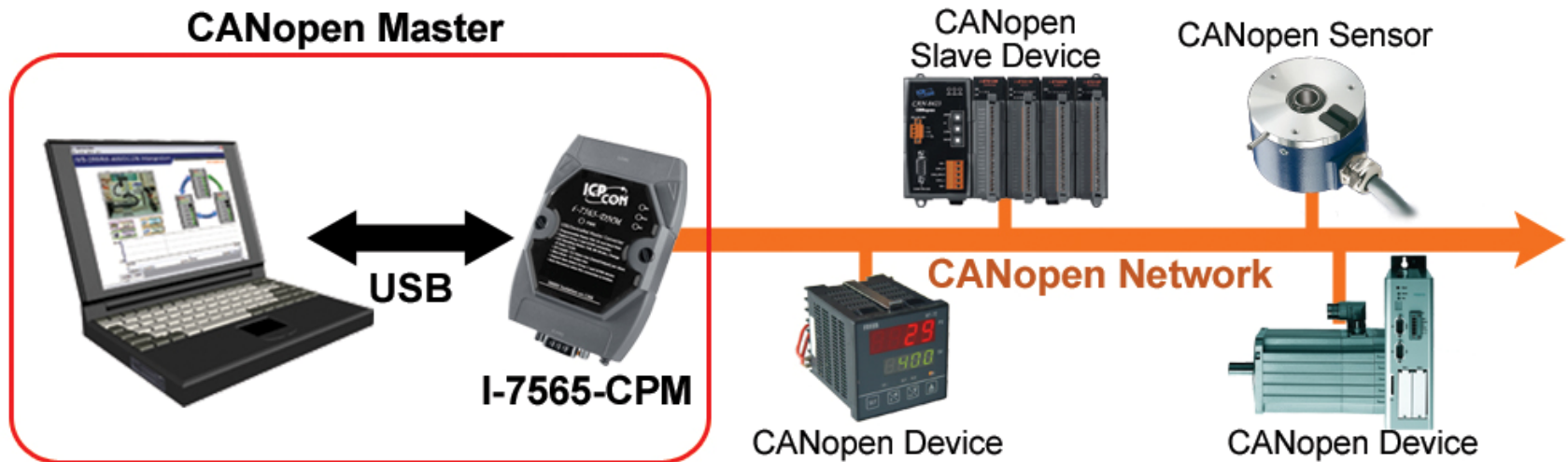
Feature :

- Follow CiA DS-301 v4.02
- NMT : Master
- Selectable baud rate : 10 k ~ 1 Mbps.
- **Support NMT, PDO, SDO, SYNC and EMCY protocol.**
- **Support Node Guarding protocol**
- **Support Heartbeat Consumer protocol.**
- **Support Auto-search slave functions.**
- Powered by USB.
- 2500 Vrms isolation on the CAN side
- 3 kV galvanic isolation among power supply.



CANopen USB Solutions

- I-7565-CPM (USB / CANopen Master Module)



CANopen Motion Solutions

CANopen Motion Products		
PC Board	PISO-CPM100U + Motion Library	1-port CANopen Motion Control Board with Universal PCI bus
PAC	I-8123W + Motion Library	1-port CANopen Motion Control Module with I-8K Interface
USB	I-7565-CPM + Motion Library	1-port CANopen Motion Control Module with USB Interface

CANopen Motion

CAN bus Technology

CiA 402 compatible

The image shows a collection of CANopen Motion products, including a green PCB (PISO-CPM100U), a black I-8123W module, and several black I-7565-CPM modules. The background features a stylized blue and green wave pattern.

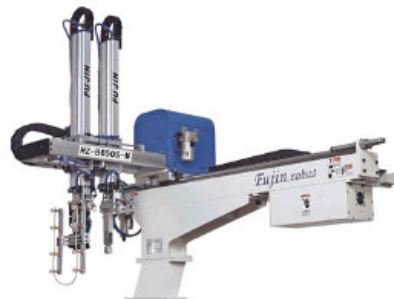


CANopen Motion Solutions

- **CANopen Motion Library**

Feature :

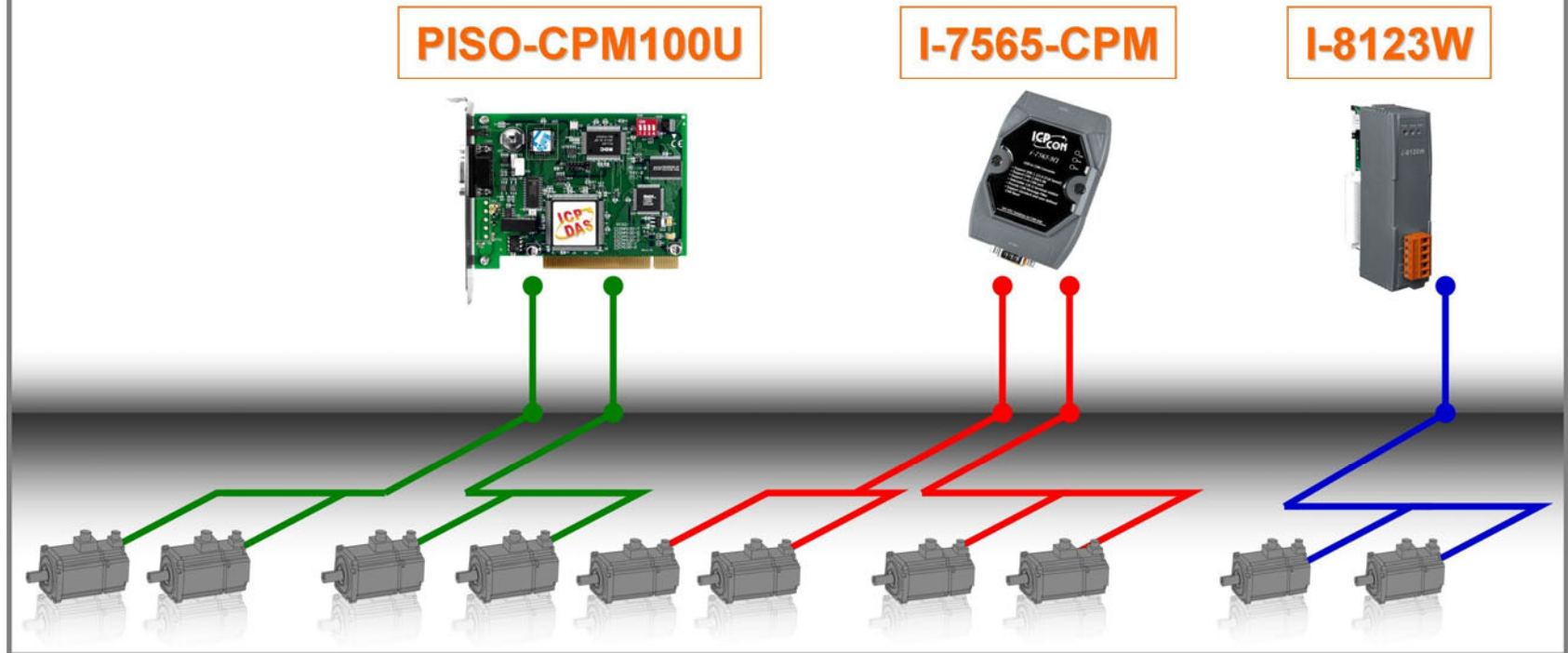
- **Compliant with CiA 402 v1.1**
- **Support max. 127 motors in one network.**
- **Absolute and relative position control.**
- **Velocity / Torque / JOG control.**
- **Support max. 127 motors synchronous action.**
- **Various Homing control.**
- **Support torque limitation with CANopen command.**



CANopen Motion Solutions

- CANopen Motion Library

CANopen Motion Application Network



CANopen Gateway Solutions

CANopen Gateway Products	
I-7231D	CANopen Slave / DCON Master Gateway Module
I-7232D	CANopen Slave / Modbus RTU Master Gateway Module
GW-7433D	CANopen Master / Modbus TCP Server Gateway Module



CANopen Gateway Solutions

- **I-7231D (CANopen Slave / DCON Master Gateway)**

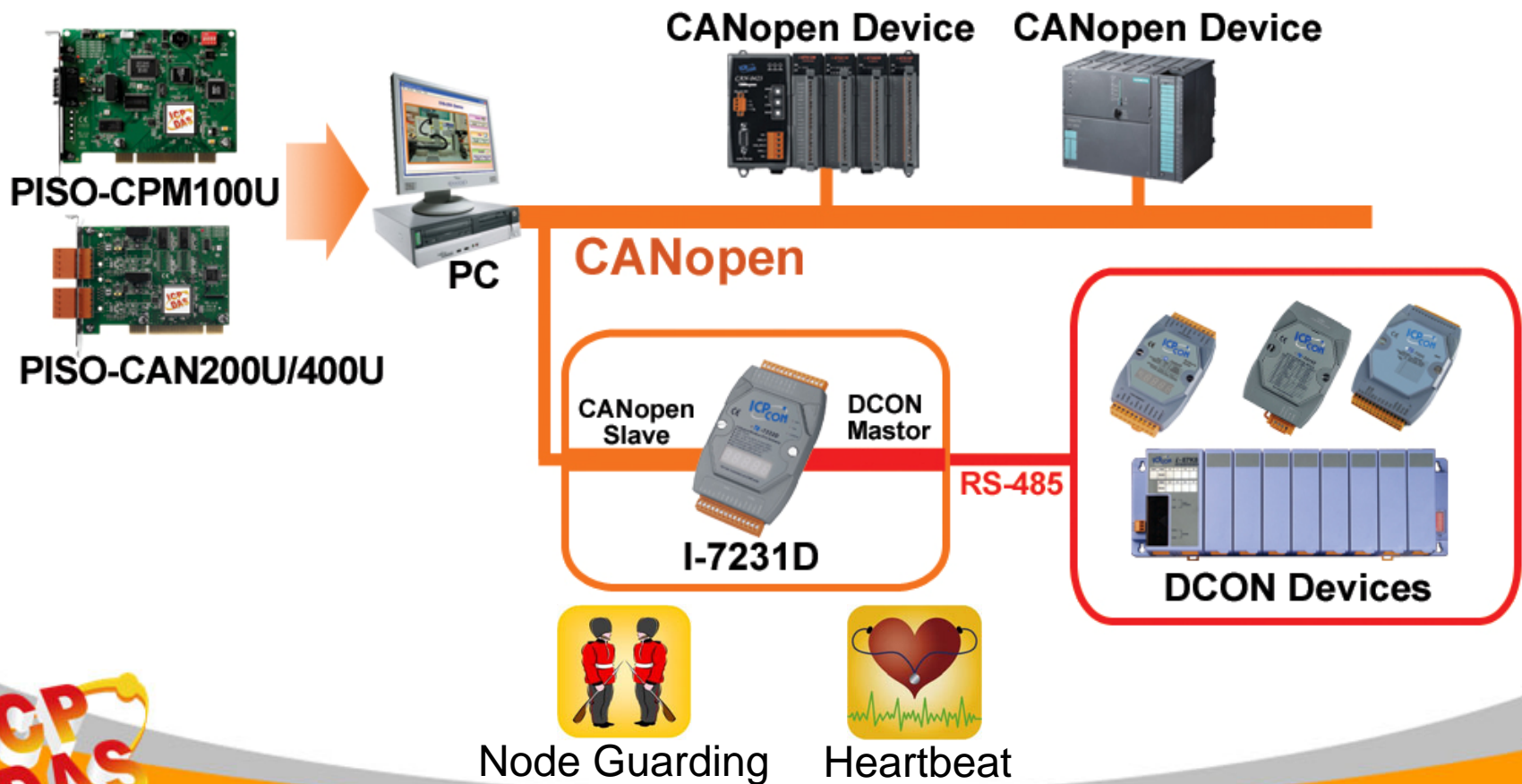
Feature :

- Follow CiA DS-301 and DSP-401.
- NMT : Slave.
- CAN Baud rate : 10k ~ 1M bps.
- Programmable Node ID.
- **Supports Node Guarding protocol.**
- **Support Heartbeat Producer protocol.**
- **PDO Modes: Event-triggered, remotely requested, cyclic and acyclic SYNC**
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.



CANopen Gateway Solutions

- I-7231D (CANopen Slave / DCON Master Gateway)



CANopen Gateway Solutions

- **I-7232D (CANopen Slave / Modbus RTU Master Gateway)**

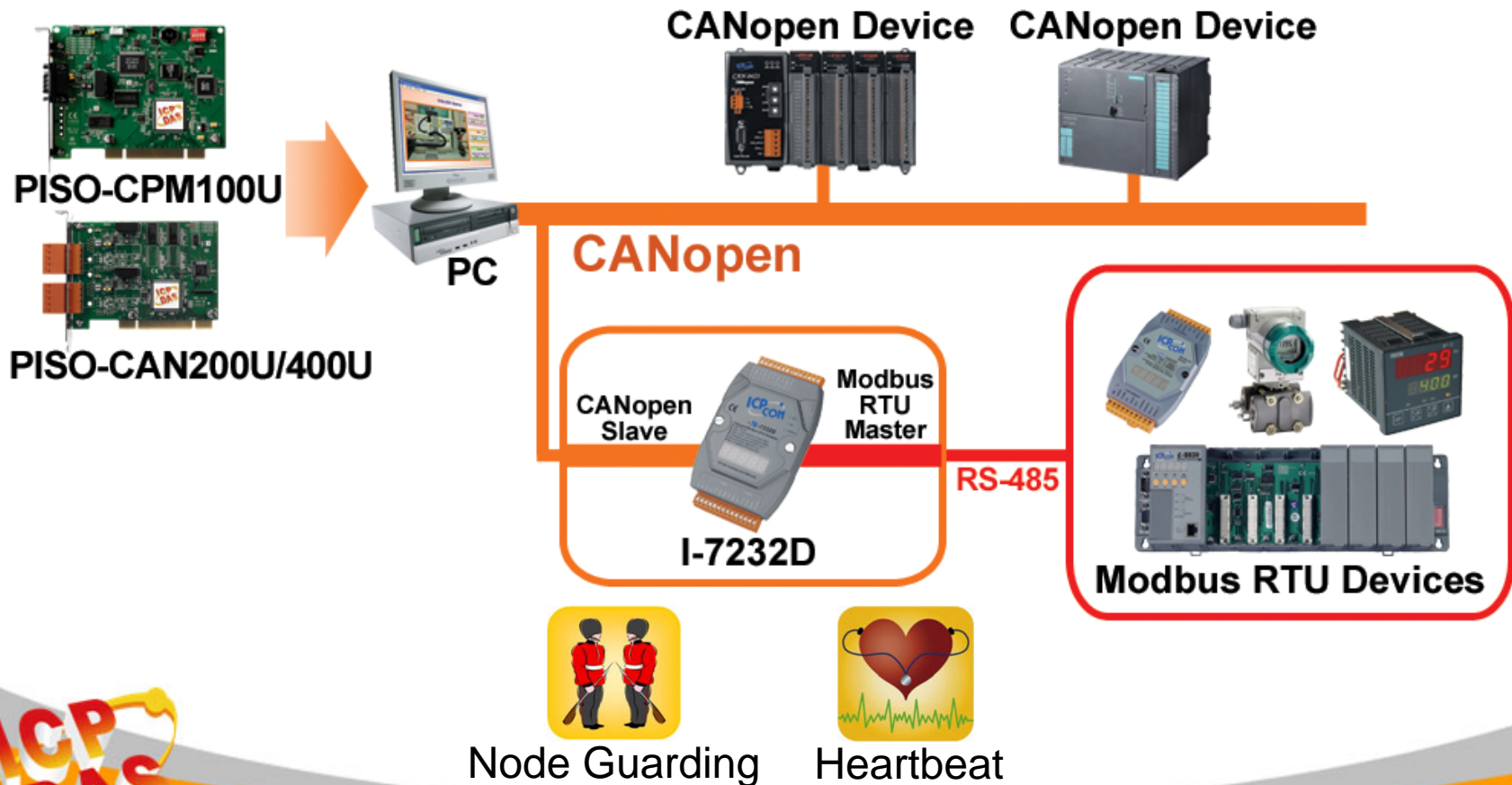
Feature :

- Follow CiA DS-301 and DSP-401.
- NMT : Slave.
- CAN Baud rate : 10k ~ 1M bps.
- Programmable Node ID.
- Up to 10 Modbus RTU devices.
- **Supports Node Guarding protocol.**
- **Support Heartbeat Producer protocol.**
- **PDO Modes: Event-triggered, remotely requested, cyclic and acyclic SYNC**
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.



CANopen Gateway Solutions

- I-7232D (CANopen Slave / Modbus RTU Master Gateway)



CANopen Gateway Solutions

- **GW-7433D (CANopen Master / Modbus TCP Server Gateway)**

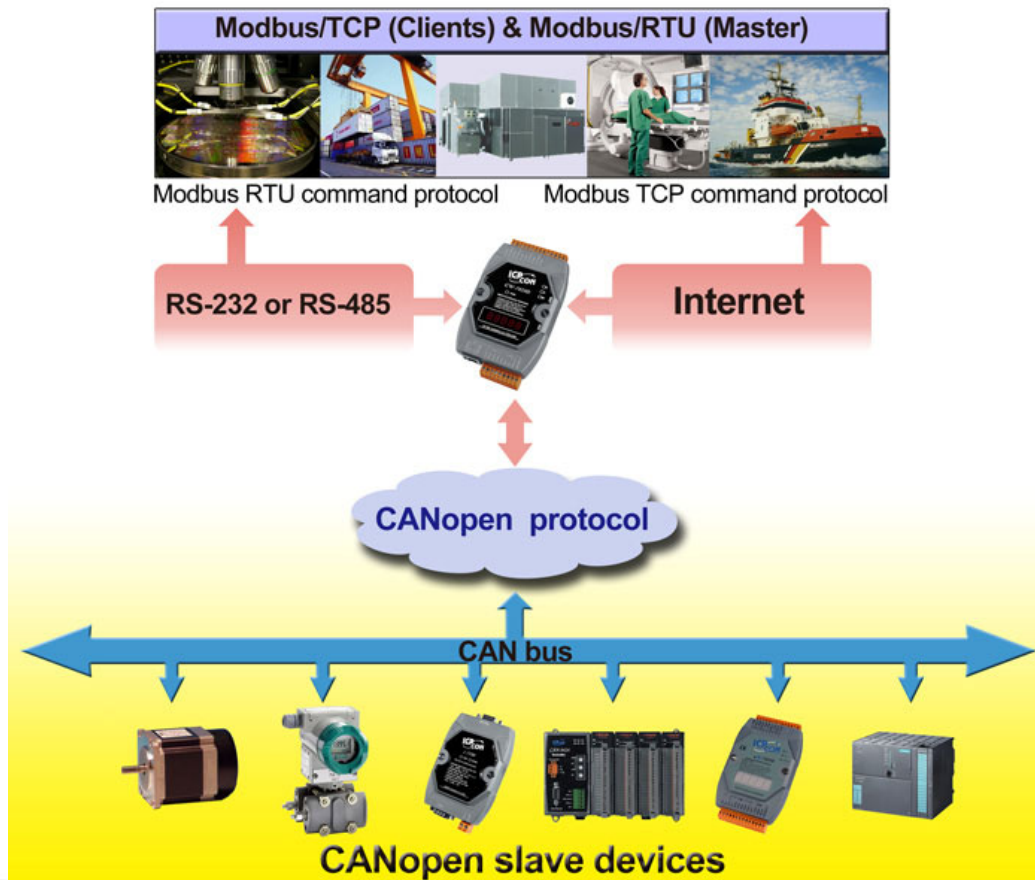
Feature :

- Follow CiA DS-301 v4.02.
- NMT : Master.
- CAN Baud rate : 10k ~ 1M bps.
- Programmable Node ID.
- Support Max. 5 Modbus TCP clients.
- **Supports Node Guarding protocol.**
- **Support Heartbeat Consumer protocol.**
- **Support PDO and SDO communication.**
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.



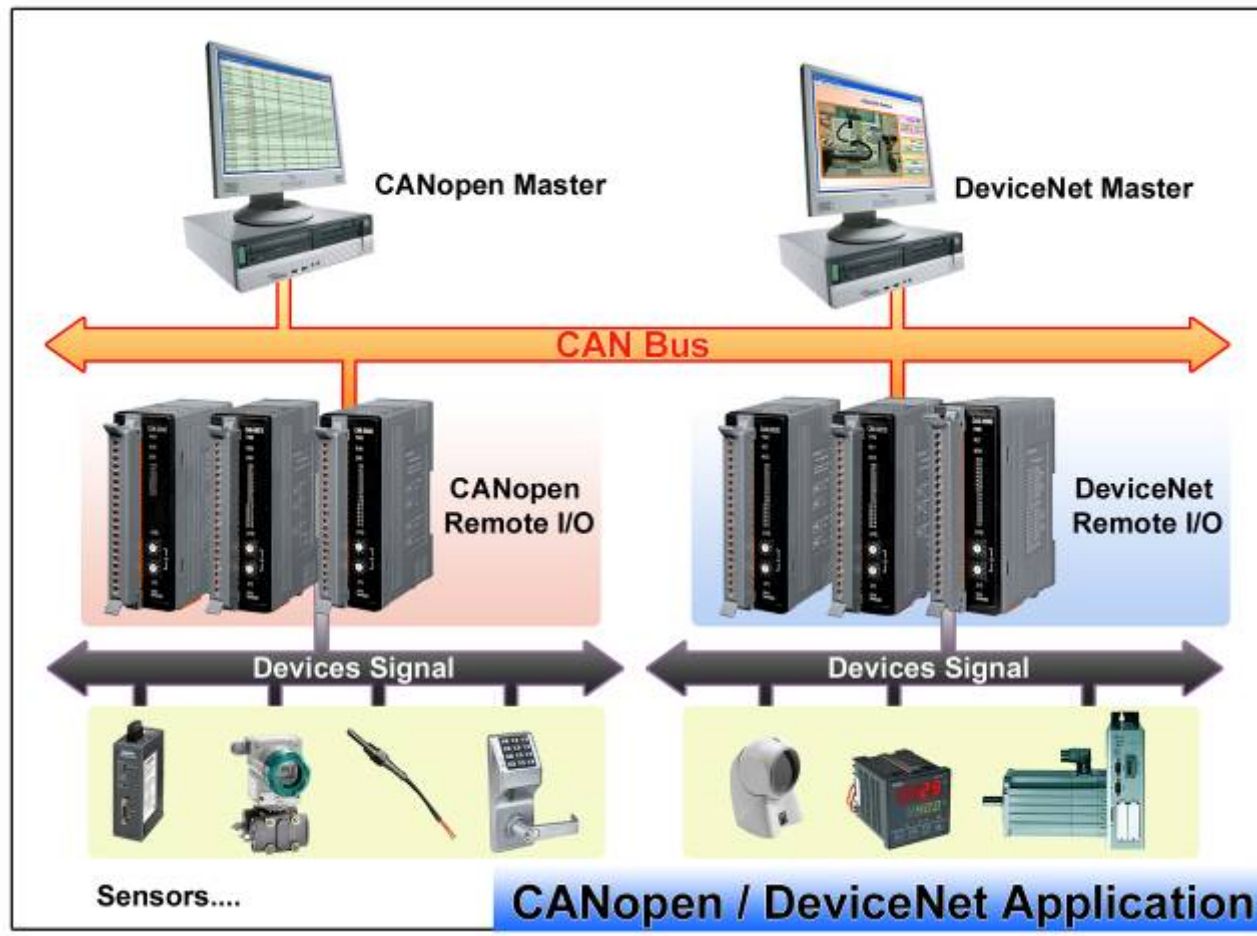
CANopen Gateway Solutions

- **GW-7433D (CANopen Master / Modbus TCP Server Gateway)**



CAN bus Remote I/O Solutions

- CANopen : CAN-8x23 and CAN-2000C Series
- DeviceNet: CAN-8x24 and CAN-2000D Series



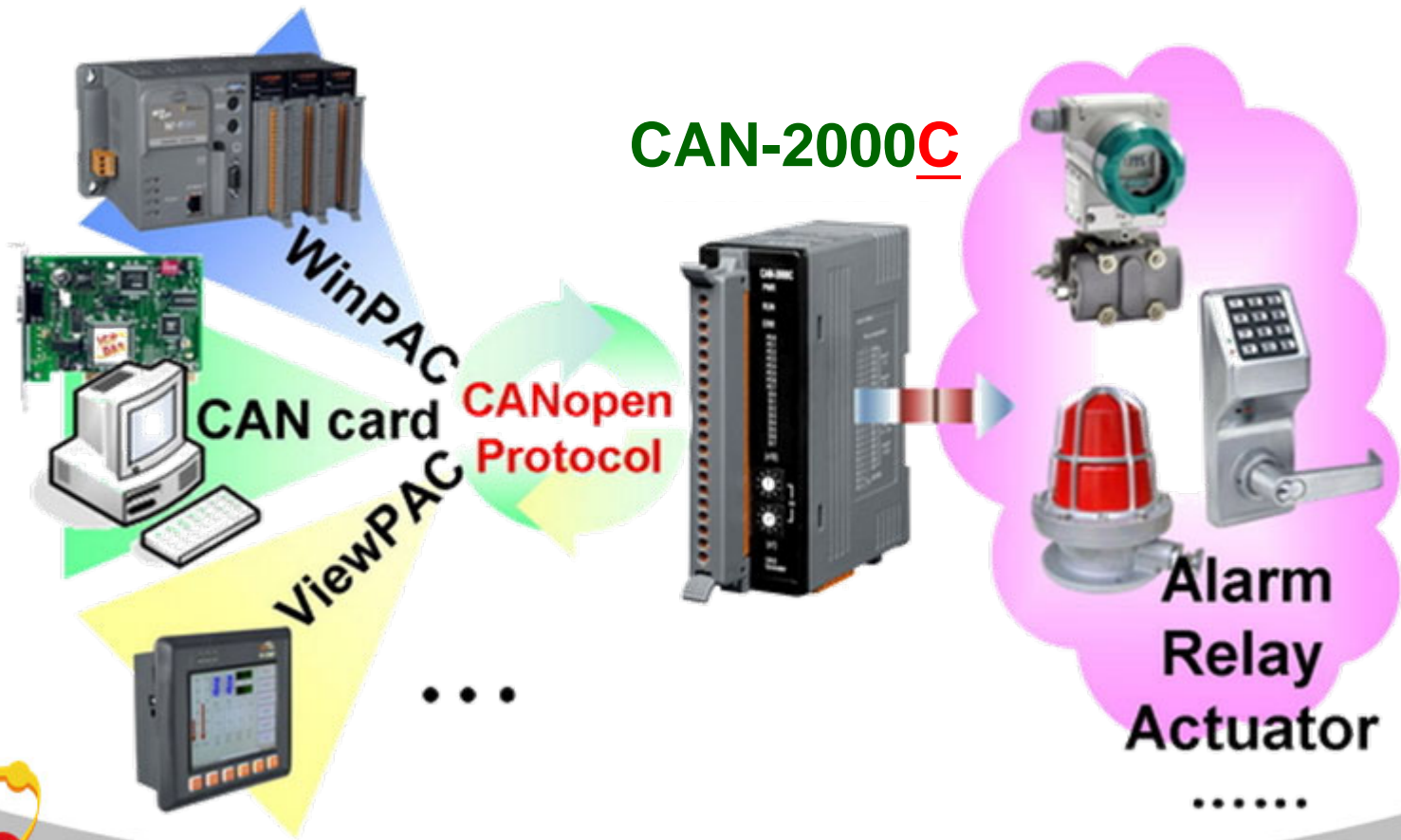
CANopen Remote I/O Solutions

CANopen Remote I/O Products	
CAN-2053C	CANopen 16-channel Isolated DI Module
CAN-2054C	CANopen 8-channel DI and 8-channel DO Module
CAN-2057C	CANopen 16-channel Isolated DO Module
CAN-2017C	CANopen 8-channel Analog Input Module
CAN-2024C	CANopen 4-channel Analog Output Module
CAN-2088C	CANopen PWM Module
CAN-8123	1 Slot General Purpose CANopen Slave I/O Unit
CAN-8223	2 Slot General Purpose CANopen Slave I/O Unit
CAN-8423	4 Slot General Purpose CANopen Slave I/O Unit



CANopen Remote I/O Solutions

- CAN-2000C Series I/O Module

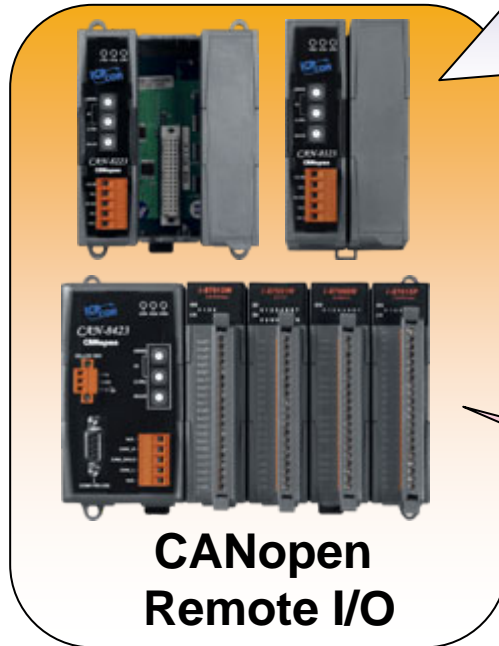


CANopen Remote I/O Solutions

- **CAN-8x23 Series I/O Module**



CANopen Master



CANopen Remote I/O

DI / DO
AI / AO
RTD
Thermocouple
Counter
PWM
.....

I-8000 I/O Module
I-87K I/O Module

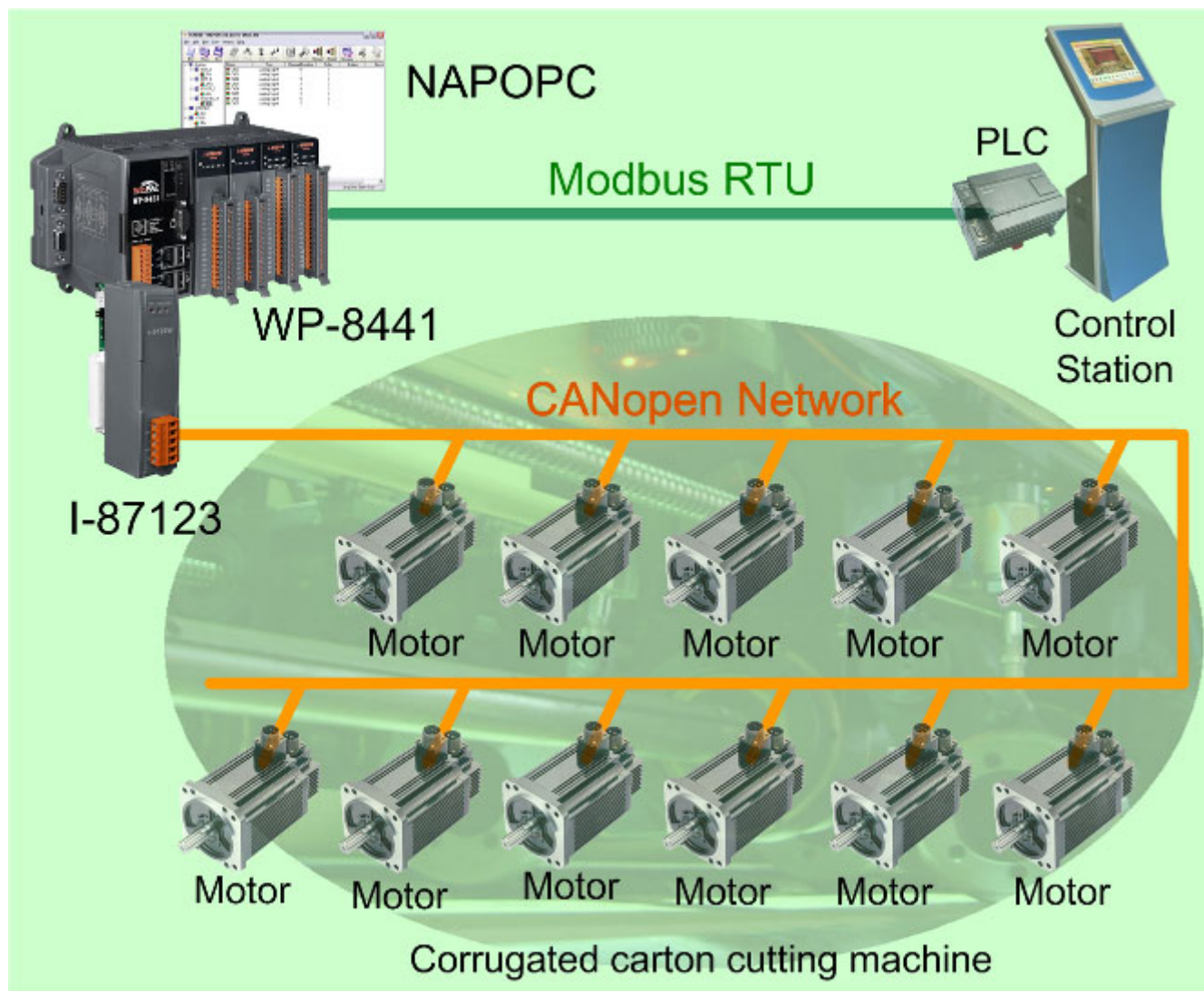


Application References

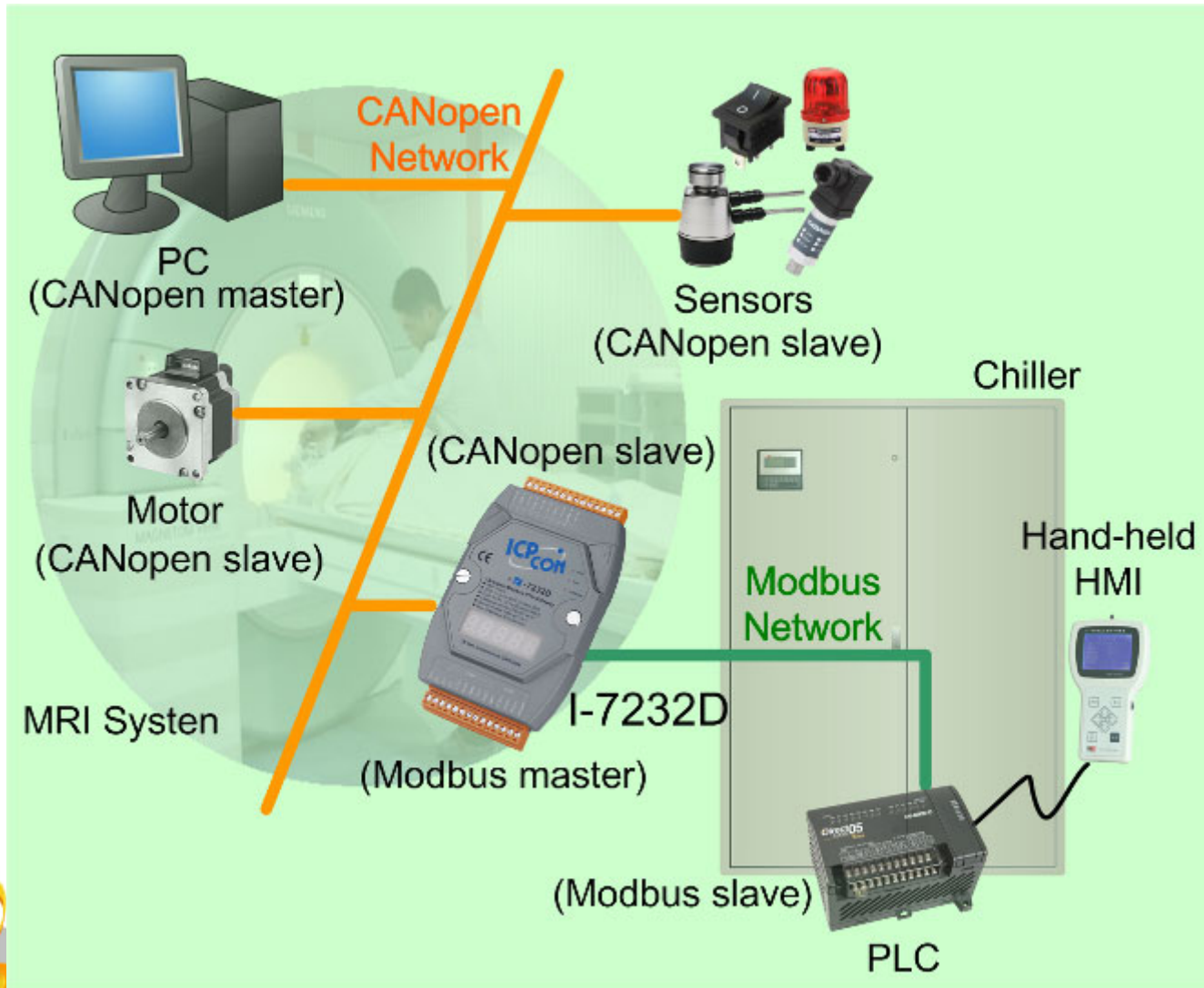


Industrial Computer Product Data Acquisition System

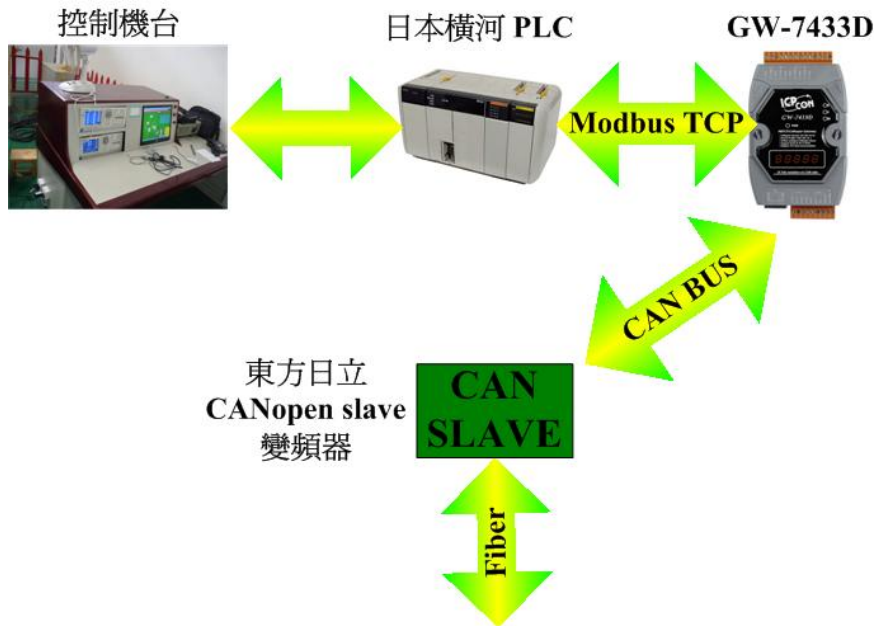
Corrugated carton cutting Machine



MRI Cooling System



Wind Energy System



Oil and Water Split System

301-1

环保模式

液位上下限设定

液位上限值	0.00	液位确定
液位下限值	0.00	

起止时间参数设定

起始时间	2010	年	1	月	1	日	0	时	0	分	0	秒	时间设置确定
结束时间	2010	年	1	月	1	日	0	时	0	分	0	秒	

油水分离器

液位计

油水分界高度 MN-0-0

探头 0关 1开 状态 KG-0-0

回讯器 0关 1开 状态 KG-0-4

电磁阀

环保模式

深度模式

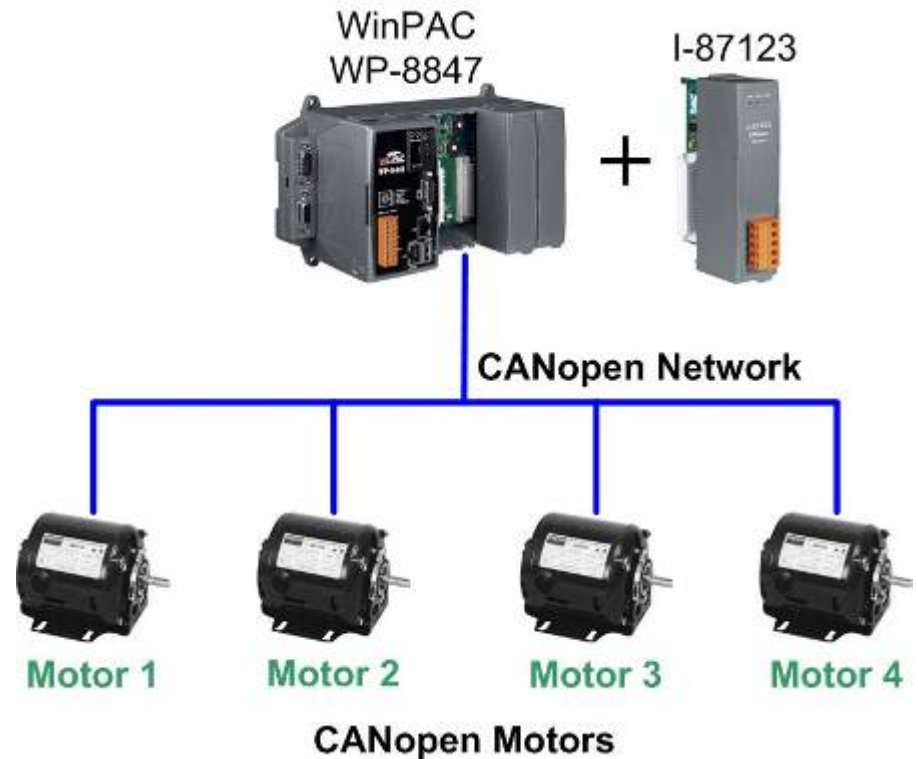
洁净模式

极限模式

退出本站



Railroad System



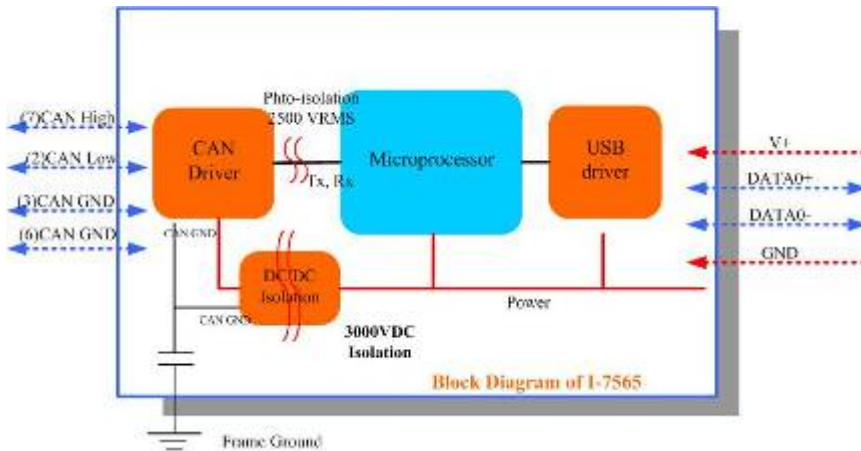
All tools are free!!



Industrial Computer Product Data Acquisition System

High protection and Certification

- DC/DC power supply to galvanically isolated bus drivers
- Photo-isolation protection on bus
- 4KV ESD protection
- CE, FCC certification



The Advantage in ICP DAS

- All kinds of CAN total Solutions
- DeviceNet/CANopen protocol series
- CAN ODM products
- Good technology support Team





Thank You

