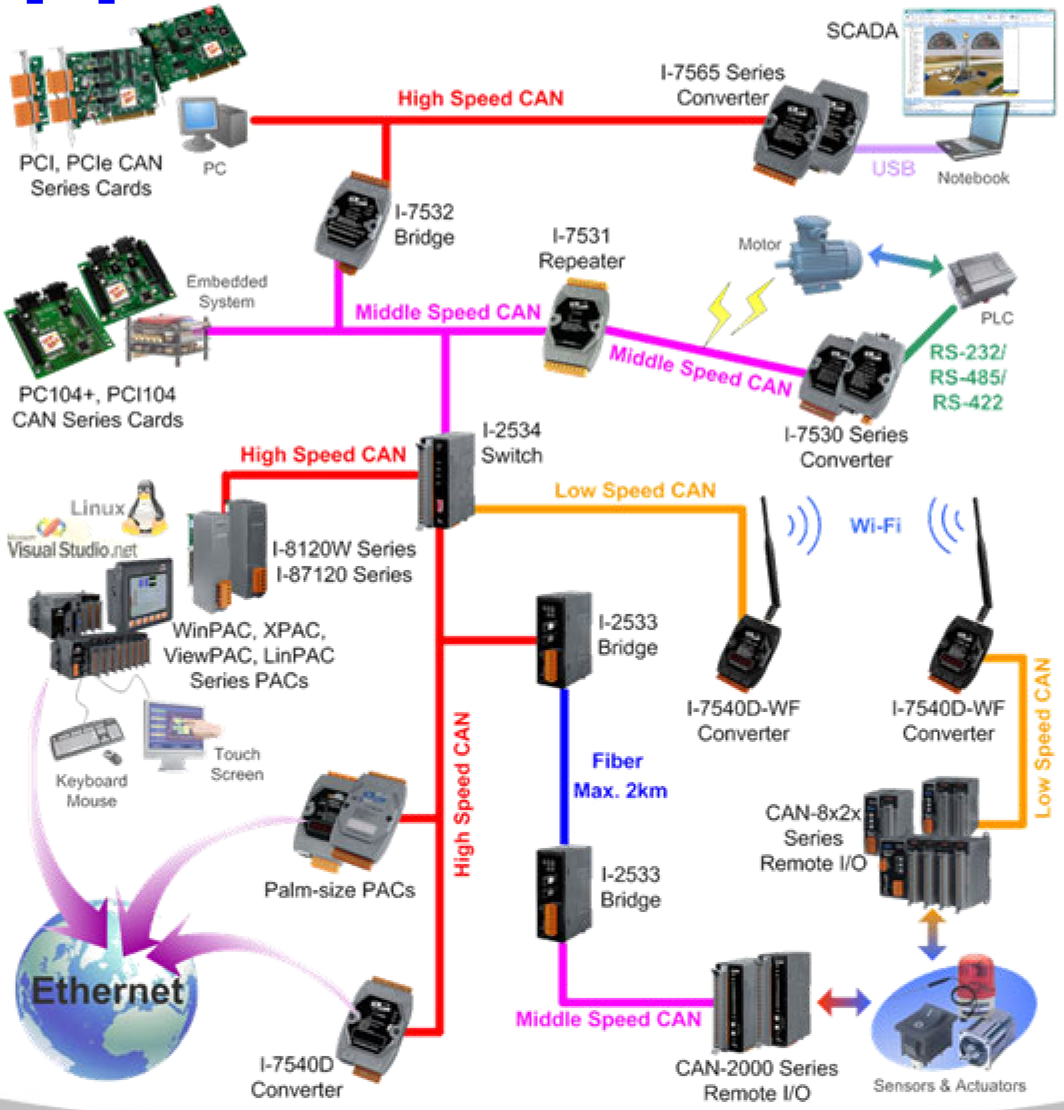
ICP DAS
CAN Total solutions
2013

Industrial Computer Product Data Acquisition System

Application Solutions


SCADA
I-7565 Series
Converter
High Speed CAN
USB
Notebook
PCI, PCIe CAN
Series Cards
PC
I-7532
Bridge
I-7531
Repeater
Motor
PLC
Embedded
System
Middle Speed CAN
Middle Speed CAN
RS-232/
RS-485/
RS-422
PC104+, PCI104
CAN Series Cards
I-7530 Series
Converter
I-2534
Switch
High Speed CAN
Low Speed CAN
Wi-Fi
Linux
Visual Studio.net
I-8120W Series
I-87120 Series
WinPAC, XPAC,
ViewPAC, LinPAC
Series PACs
I-2533
Bridge
I-7540D-WF
Converter
I-7540D-WF
Converter
Low Speed CAN
Keyboard
Mouse
Touch
Screen
Fiber
Max. 2km
High Speed CAN
CAN-8x2x
Series
Remote I/O
Palm-size PACs
I-2533
Bridge
Ethernet
Middle Speed CAN
I-7540D
Converter
CAN-2000 Series
Remote I/O
Sensors & Actuators

CAN bus & RS-485

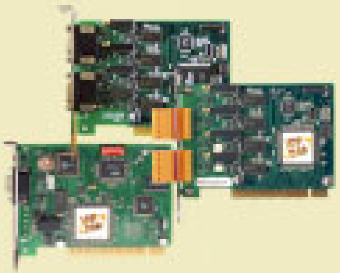
	RS-485	CAN Bus
Bus Distance	40 m | 1.2 km	40 m | 10 km
Baud Rate	1.2 k | 115.2 k	5 k | 1 M bps
Multi-Master	Not support	Multi-Master
Benefit	Popularity	Safety
Feature	---	Arbitration Mechanism

CAN bus Series in ICP DAS

Converter solutions

PAC solutions

Gateway solutions


PC-based sloutions

Remote I/O solutions

CAN Converter Solutions

CAN Converter, Repeater, Bridge, Switch	
Fiber / CAN Converter	I-2532 , I-2533
Serial / CAN Converter	I-7530 , I-7530-FT , I-7530A , I-7530A-MR
USB / CAN Converter	I-7565 , I-7565-H1 , I-7565-H2
Ethernet / CAN Converter	I-7540D , I-7540D-MTCP
Wi-Fi / CAN Converter	I-7540D-WF
CAN bus Repeater	I-7531
CAN bus Bridge	I-7532
CAN bus Switch	I-2534

CAN Converter Performance

CAN Converter Performance		Delay Time or Max. FPS
Fiber / CAN Converter	I-2532	Delay Time = 125 ns
	I-2533	Delay Time = 120 us
Serial / CAN Converter	I-7530 , I-7530A I-7530-FT ,	320 ~ 420 FPS
	I-7530A-MR	370 FPS
USB / CAN Converter	I-7565	250 FPS
	I-7565-H1 / H2	3000 FPS
Ethernet / CAN Converter	I-7540D	1600 FPS
	I-7540D-MTCP	2300 FPS
Wi-Fi / CAN Converter	I-7540D-WF	700 FPS
CAN bus Repeater	I-7531	Delay Time = 125 ns
CAN bus Bridge	I-7532	Delay Time = 120 us
CAN bus Switch	I-2534	Delay Time = 360 ~ 560 us

CAN Converter Solutions

CAN / Fiber Converter (I-2532)

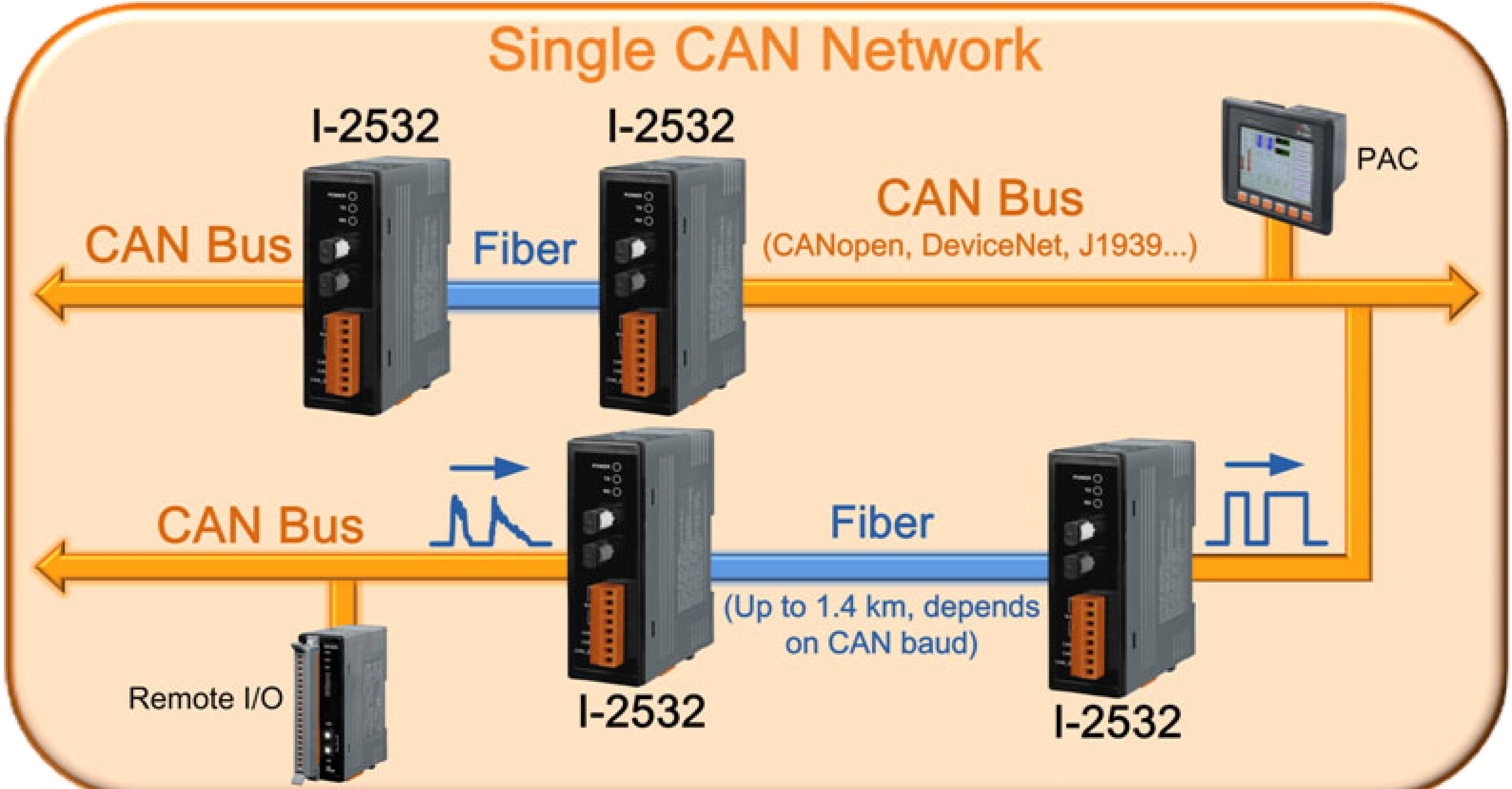
Feature :

- Compatible with CAN 2.0A and 2.0B
- Auto-baud detection from 10 k ~ 500 kbps
- Fiber Port: ST (Multi-mode)
- Up to 100 nodes on CAN port
- Provide CAN bus signal conversion and isolation.
- Not support extending CAN bus distance.
- Max. propagation delay is 125 ns
- 2500 Vrms isolation on CAN bus
- 3 kV galvanic isolation among power supply.

POWER
TD
RD
CAN
CAN
CAN_G

CAN Converter Solutions

- **CAN / Fiber Converter (I-2532)**


Single CAN Network
I-2532
I-2532
PAC
CAN Bus
(CANopen, DeviceNet, J1939...)
CAN Bus
Fiber
CAN Bus
Fiber
(Up to 1.4 km, depends on CAN baud)
Remote I/O
I-2532
I-2532

CAN Converter Solutions

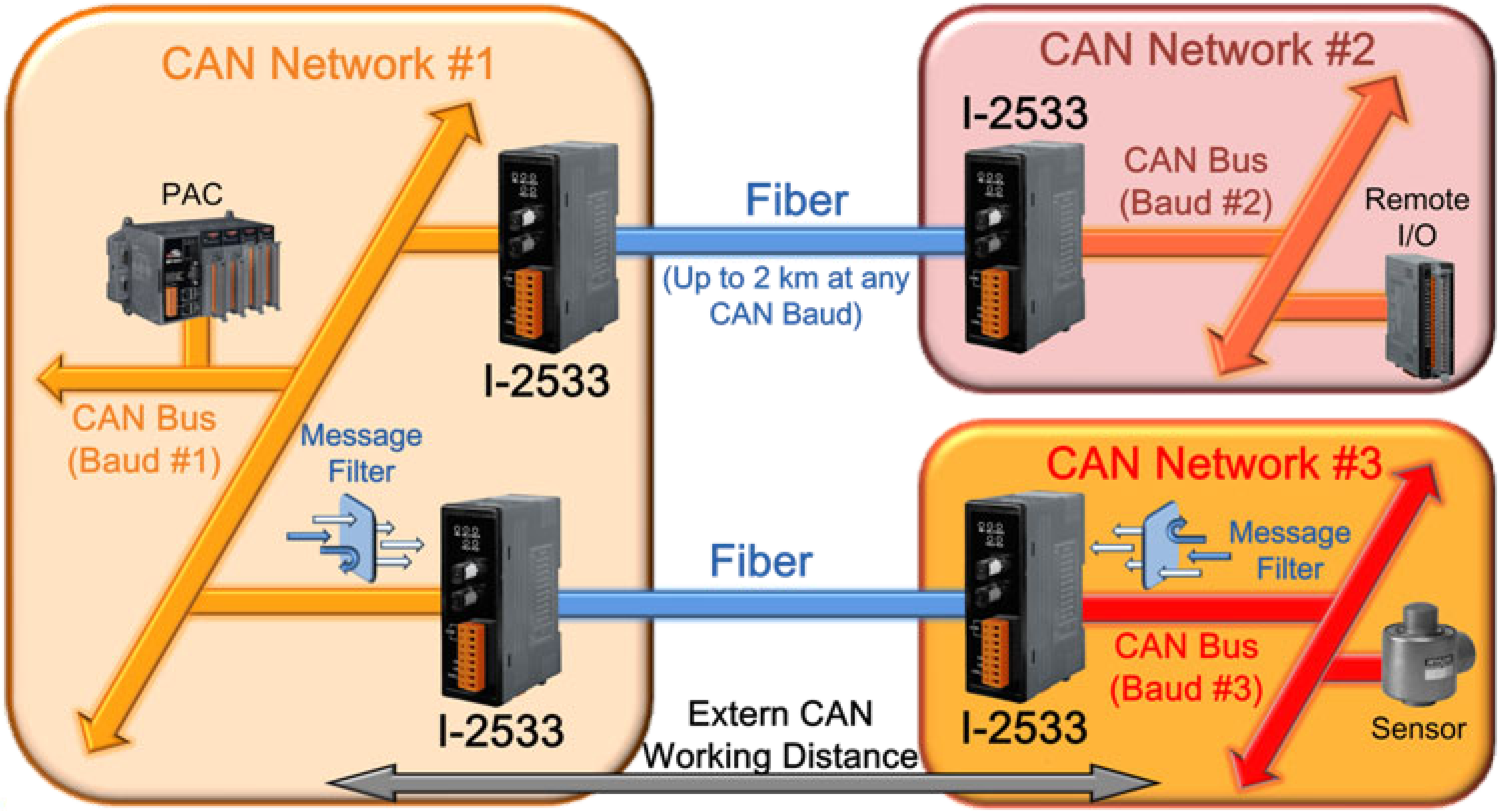
CAN / Fiber Bridge (I-2533)

Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Selectable baud rate : 10 k ~ 1 Mbps.**
- **Support user-define baud rate.**
- **Fiber Port: ST (Multi-mode)**
- **Up to 100 nodes on CAN port**
- **Extend CAN bus working distance.**
- **Rebuild CAN signal.**
- **Built-in CAN message buffer.**
- **2500 Vrms isolation on the CAN side**
- **3 kV galvanic isolation among power supply.**

CAN Converter Solutions

- **CAN / Fiber Bridge (I-2533)**


CAN Network #1
PAC
I-2533
CAN Bus
(Baud #1)
Message
Filter
I-2533
Fiber
(Up to 2 km at any
CAN Baud)
Fiber
Extern CAN
Working Distance
CAN Network #2
I-2533
CAN Bus
(Baud #2)
Remote
I/O
CAN Network #3
Message
Filter
CAN Bus
(Baud #3)
I-2533
Sensor

CAN Converter Solutions

CAN/Fiber Products		
	I-2532	**I-2533**
Product Type	**Converter**	**Bridge**
Extend CAN bus	X	V
Built-in CAN Buffer	X	V
Propagation Delay	125ns max.	120us max.
Rebuild CAN signal	V	V
Isolated CAN bus	V	V
Max. CAN node	**At least 100**	**At least 100**
Baud Rate	**Auto-detect (500K max.)**	**10k~1Mbps**

CAN Converter Solutions

• RS-232 to CAN Converter (I-7530)

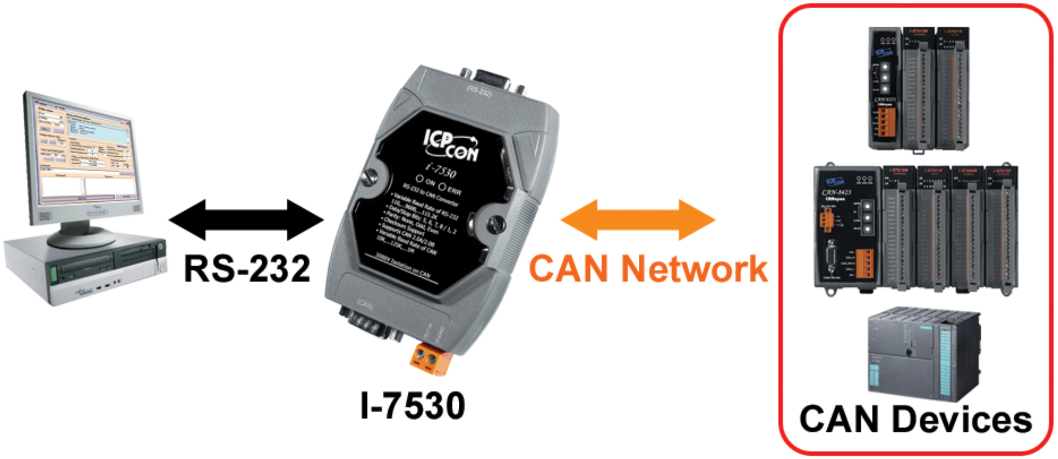
Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Compatible with ISO 11898-2 standard.**
- **Baud rate : 10 k ~ 1 Mbps.**
- **Support CAN filter configuration.**
- **One CAN port and one RS-232 port.**
- **Support transparent communication.**
- **Built-in CAN and RS-232 message buffer.**
- **2500 Vrms isolation on the CAN side**
- **3 kV galvanic isolation among power supply.**

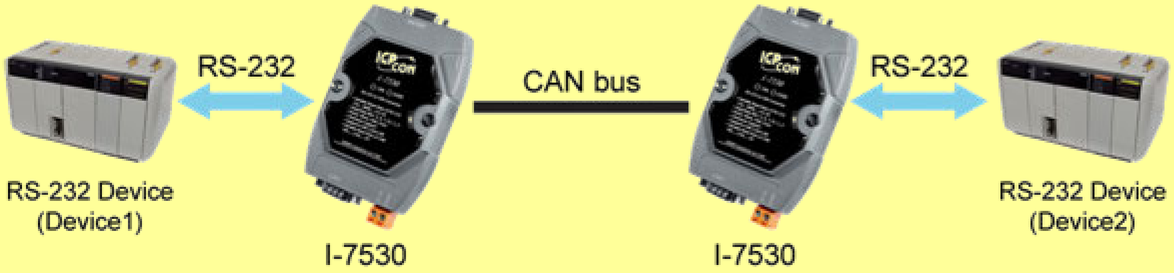
(RS-232)
ICP CON
i-7530
ON
ERR
RS-232 to CAN Converter
• Variable Baud Rate of RS-232 110,...9600,...115.2K
• Data/Stop Bits: 5, 6, 7, 8 / 1, 2
• Parity: None, Odd, Even
• Checksum Support
• Supports CAN 2.0A/2.0B
• Variable Baud Rate of CAN 10K,...125K,...1M
3000V Isolation on CAN
(CAN)
(R)+Vs
(B)GND

CAN Converter Solutions

- RS-232 to CAN Converter (I-7530)


RS-232
CAN Network
I-7530
CAN Devices

Pair Connection (Transparent Communication)


RS-232
CAN bus
RS-232
RS-232 Device
(Device1)
I-7530
I-7530
RS-232 Device
(Device2)

CAN Converter Solutions

- RS-232 to CAN Fault Tolerant Converter (I-7530-FT)

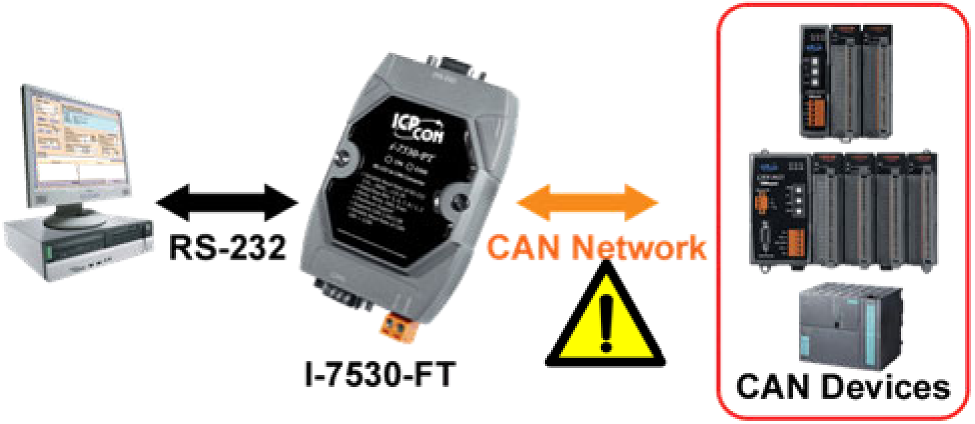
Feature :

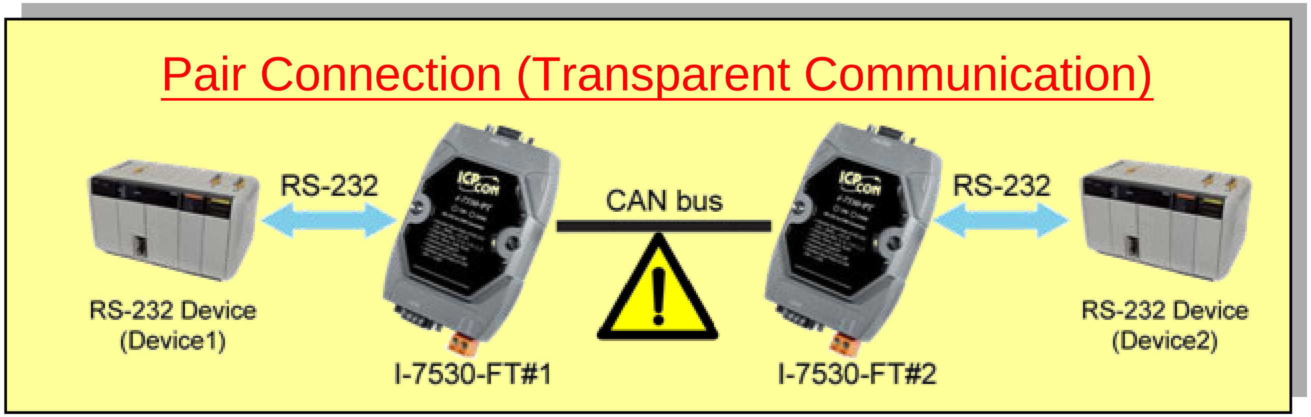
- Compatible with CAN 2.0A and 2.0B.
- Compatible with ISO 11898-3 standard (low speed fault tolerance)
- Baud rate : 10k, 20k, 50k, 125k bps.
- Support CAN filter configuration.
- One CAN port and one RS-232 port.
- Support transparent communication.
- Built-in CAN and RS-232 message buffer.
- None isolation.

(RS-232)
ICP CON
i-7530-FT
ON
ERR
RS-232 to CAN Converter
• Variable Baud Rate of RS-232
110.....9600.....115.2K
• Data/Stop Bits: 5, 6, 7, 8 / 1, 2
• Parity: None, Odd, Even
• Checksum Support
• Supports CAN 2.0A/2.0B
• Variable Baud Rate of CAN
10K ~ 125K
(CAN)
(R)+Vs
(B)GND

CAN Converter Solutions

- RS-232 to CAN Fault Tolerant Converter (I-7530-FT)


RS-232
I-7530-FT
CAN Network
CAN Devices


Pair Connection (Transparent Communication)
RS-232
CAN bus
RS-232
RS-232 Device
(Device1)
I-7530-FT#1
I-7530-FT#2
RS-232 Device
(Device2)

CAN Converter Solutions

CAN/RS-232 Products		
	I-7530	I-7530-FT
Product Type	CAN / RS-232 Converter	CAN / RS-232 Converter
Specification	11898-2	11898-3 (Fault Tolerance)
Fault Tolerance	X	V
Baud Rate	10k~1Mbps	10k, 20k, 50k, 125k bps
Isolated CAN	V	X
Built-in CAN Buffer	V	V
Pair Connection	V	V

CAN Converter Solutions

RS-485 to CAN Converter (I-7530A)

Feature :

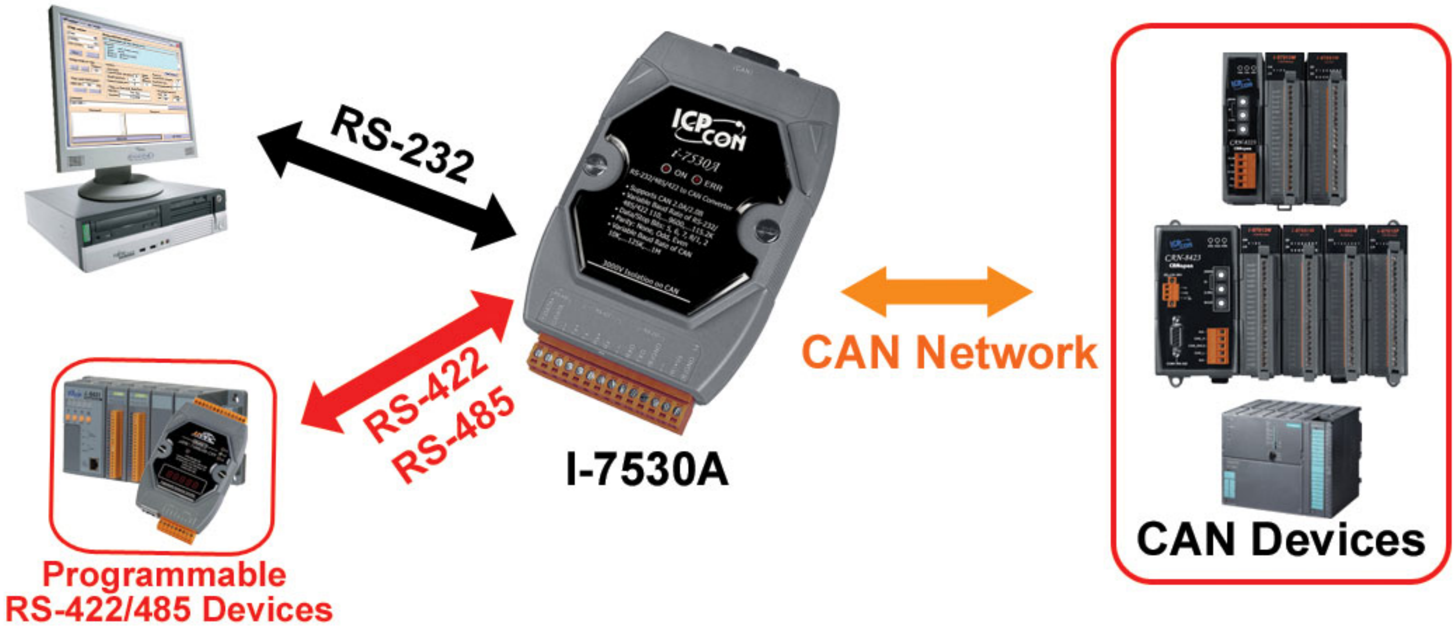
- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps.**
- **Support CAN filter configuration.**
- **One CAN /RS-232 /RS-422 /RS-485 port.**
- **Support transparent communication.**
- **Built-in CAN and UART message buffer.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

(CAN)
ICP CON
i-7530A
ON
ERR
RS-232/485/422 to CAN Converter
• Supports CAN 2.0A/2.0B
• Variable Baud Rate of RS-232/485/422 110,...9600,...115.2K
• Data/Stop Bits: 5, 6, 7, 8/1, 2
• Parity: None, Odd, Even
• Variable Baud Rate of CAN 10K,...125K,...1M
3000V Isolation on CAN

RoHS

CAN Converter Solutions

- **RS-485 to CAN Converter (I-7530A)**


RS-232
RS-422
RS-485
I-7530A
CAN Network
CAN Devices
Programmable
RS-422/485 Devices

CAN Converter Solutions

• Modbus RTU to CAN Converter (I-7530A-MR)

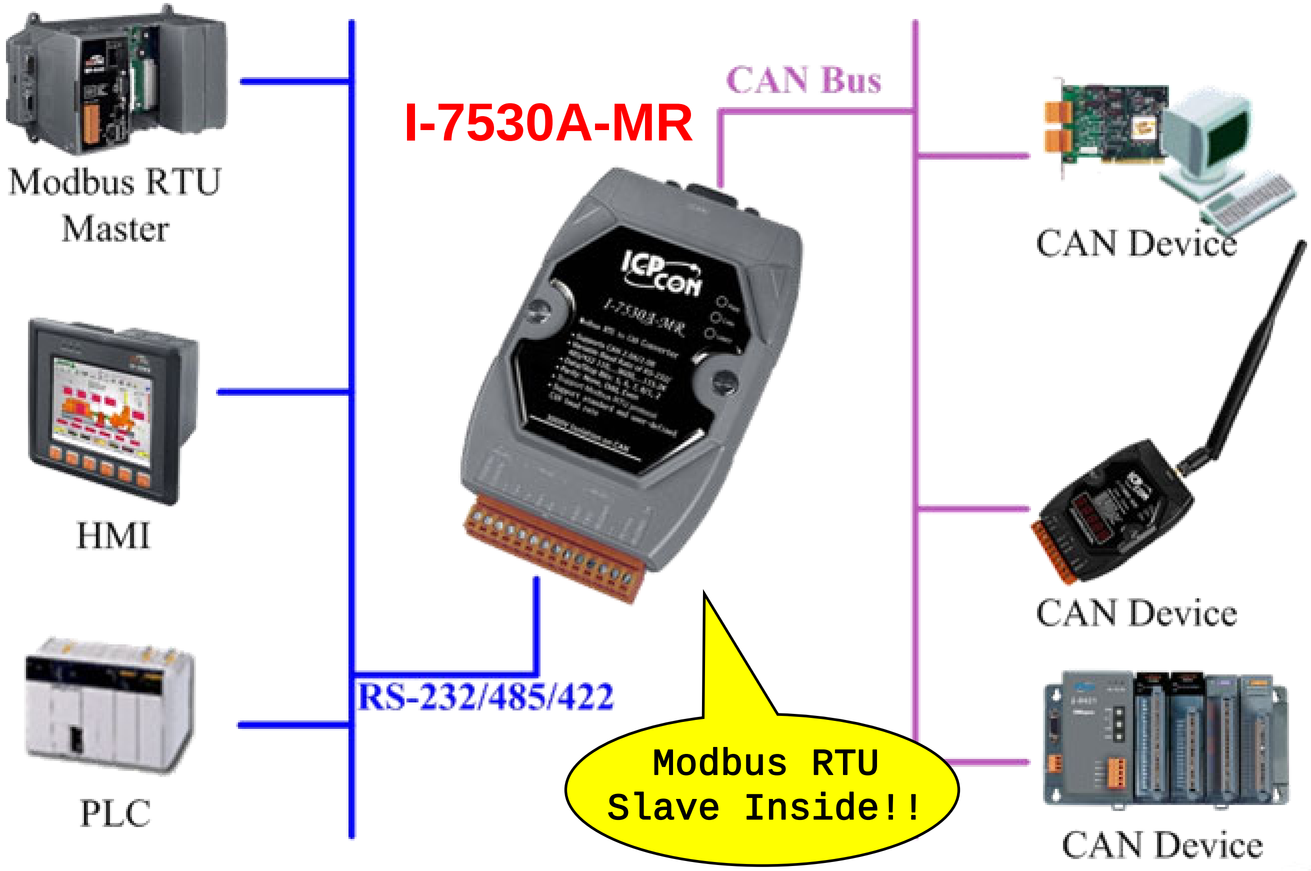
Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps.**
- **Support CAN filter configuration.**
- **One CAN /RS-232 /RS-422 /RS-485 port.**
- **Support transparent communication.**
- **Built-in CAN and UART buffer.**
- **Support Modbus RTU function to read and write CAN message.**
- **RS-232 function is compatible with I-7530 module.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

(CAN)
ICP CON
I-7530A-MR
Modbus RTU to CAN Converter
• Supports CAN 2.0A/2.0B
• Variable Baud Rate of RS-232/485/422 110,...9600,...115.2K
• Data/Stop Bits: 5, 6, 7, 8/1, 2
• Parity: None, Odd, Even
• Support Modbus RTU protocol
• Support standard and user-defined CAN baud rate
3000V Isolation on CAN
PWR
CAN
UART

CAN Converter Solutions

- Modbus RTU to CAN Converter (I-7530A-MR)


Modbus RTU Master
HMI
PLC
I-7530A-MR
CAN Bus
RS-232/485/422
Modbus RTU Slave Inside!!
CAN Device
CAN Device
CAN Device

CAN Converter Solutions

CAN/UART Products		
	I-7530A	I-7530A-MR
Product Type	CAN / RS-232/422/485 Converter	CAN / Modbus RTU Converter
CAN Baud Rate	10k~1Mbps	10k~1Mbps
Specific CAN ID	X	V (10 CAN IDs)
UART Baud Rate	115200bps (Max.)	230400bps (Max.)
Isolated CAN	V	V
Built-in CAN and UART Buffer	V	V
Pair Connection	V	V

CAN Converter Solutions

USB to CAN Converter (I-7565)

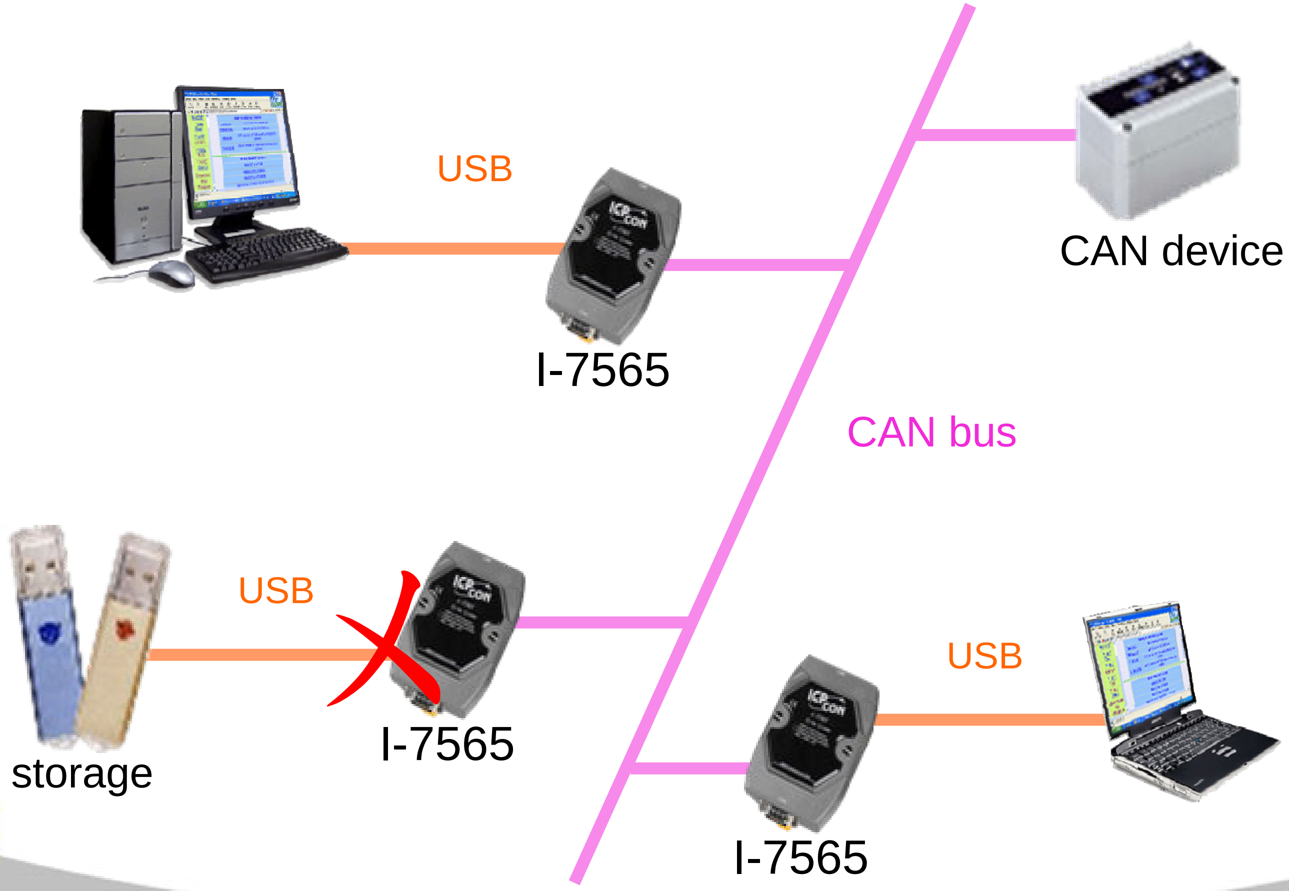
Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps.**
- **Support CAN filter configuration.**
- **One CAN port.**
- **Fully compliant with USB 1.1/2.0**
- **Powered by USB.**
- **Built-in CAN and UART message buffer.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

(USB)
ICPCON
i-7565
ON
ERR
USB to CAN Converter
• Supports CAN 2.0A/2.0B
• Variable Baud Rate of CAN
10K,...125K,...1M
3000V Isolation on CAN
(CAN)

CAN Converter Solutions

- **USB to CAN Converter (I-7565)**


USB
I-7565
CAN device
CAN bus
USB
storage
I-7565
USB
I-7565

CAN Converter Solutions

- **High Speed USB to CAN Converter (I-7565-H1)**
- **High Speed USB to CAN Converter (I-7565-H2)**

Feature :

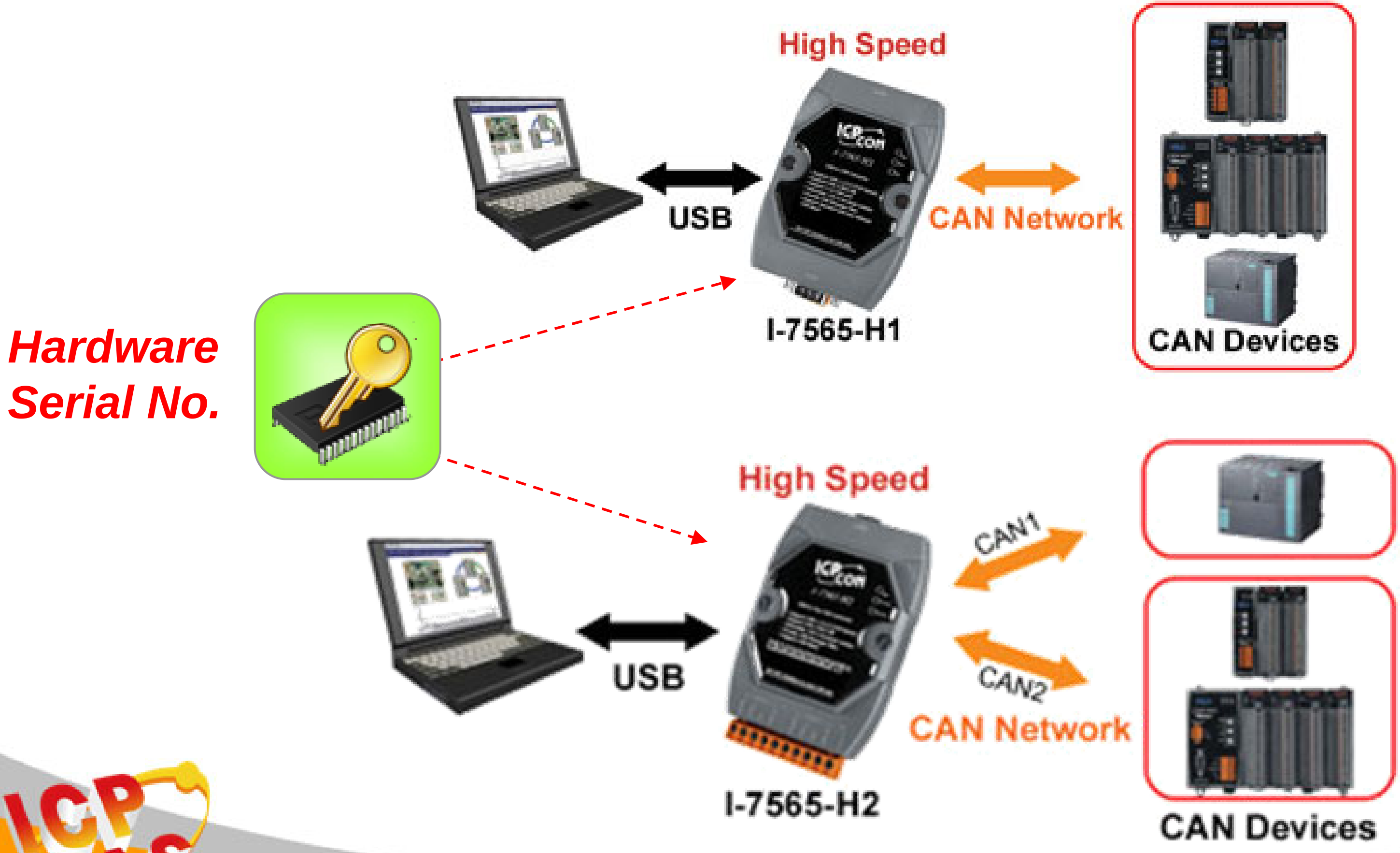
- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 5k ~ 1M bps.**
- **Support CAN filter configuration.**
- **I-7565-H1 has one CAN port.**
- **I-7565-H2 has two CAN ports.**
- **Compliant with USB 1.1/2.0 (Full speed).**
- **Powered by USB.**
- **Built-in CAN message buffer.**
- **Provide Hardware Serial Number to protect users' program.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

I-7565-H1

I-7565-H2

CAN Converter Solutions

- **High Speed USB / CAN Converter (I-7565-H1/H2)**



Hardware Serial No.

High Speed

USB

CAN Network

I-7565-H1

CAN Devices

High Speed

USB

CAN1

CAN2

CAN Network

I-7565-H2

CAN Devices

CAN Converter Solutions

CAN/USB Products			
	I-7565	I-7565-H1	I-7565-H2
Baud Rate	10k~1Mbps	5k~1Mbps	5k~1Mbps
CAN Port	1	1	2
Hardware SN.	X	V	V
Isolated CAN	V	V	V
Built-in CAN Buffer	V	V	V
Powered by USB	V	V	V

CAN Converter Solutions

Ethernet to CAN Converter (I-7540D)

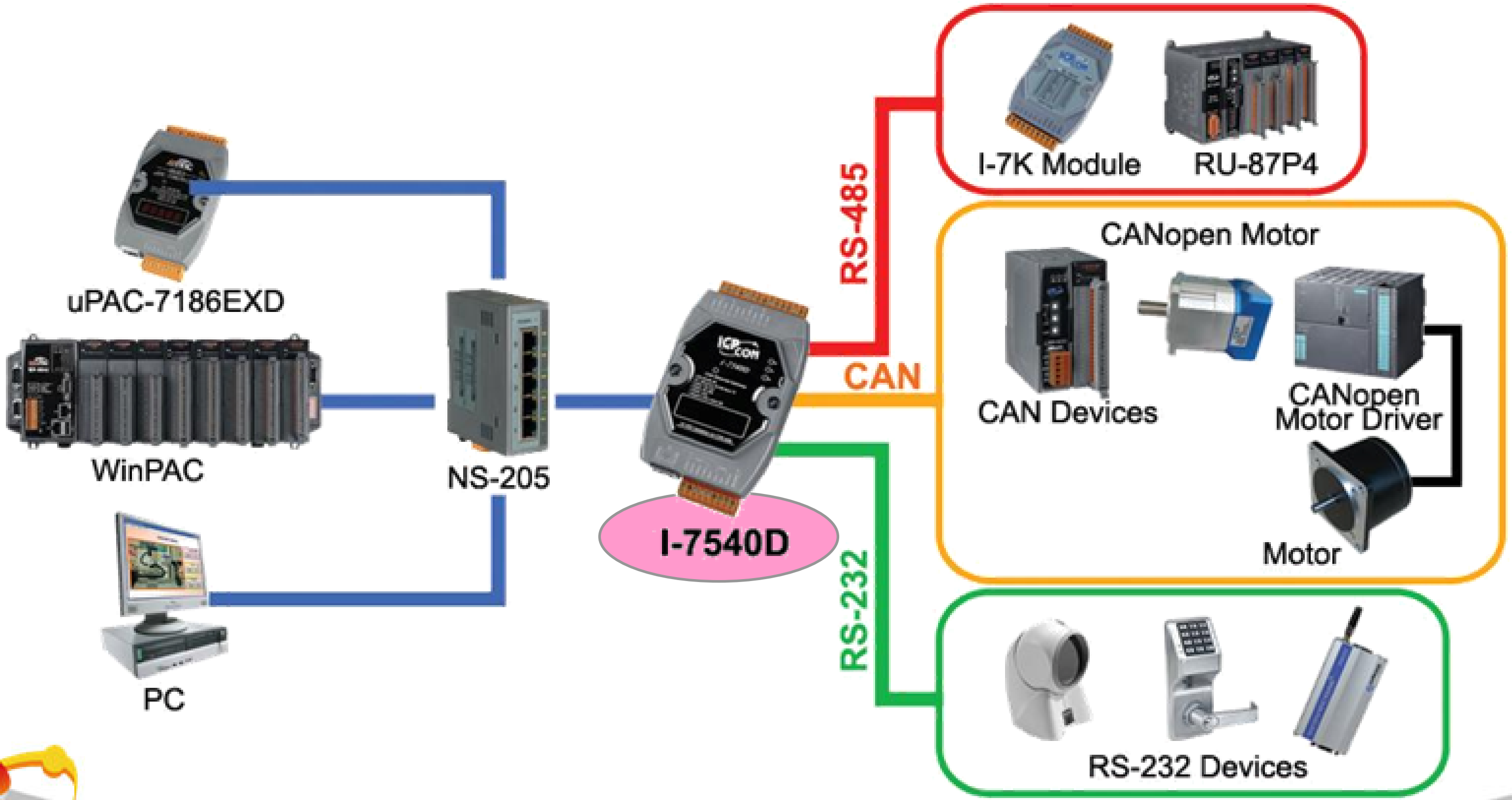
Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps.**
- **Support CAN filter configuration.**
- **One CAN /RS-232 /RS-485 port.**
- **One 10/100 Base-T Ethernet port.**
- **Support Virtual COM technology.**
- **Support Max. 25 Ethernet clients connection.**
- **Support Web configuration.**
- **2500 Vrms isolation on the CAN side.**
- **1 kV galvanic isolation among power supply.**

ICP CON
i-7540D
CAN-Ethernet Gateway
1K VDC isolation on CAN side

CAN Converter Solutions

- Ethernet to CAN Converter (I-7540D)


I-7K Module
RU-87P4
RS-485
uPAC-7186EXD
WinPAC
NS-205
CAN
CANopen Motor
CAN Devices
CANopen Motor Driver
Motor
I-7540D
PC
RS-232
RS-232 Devices

CAN Converter Solutions

• Ethernet to CAN Converter (I-7540D-MTCP)

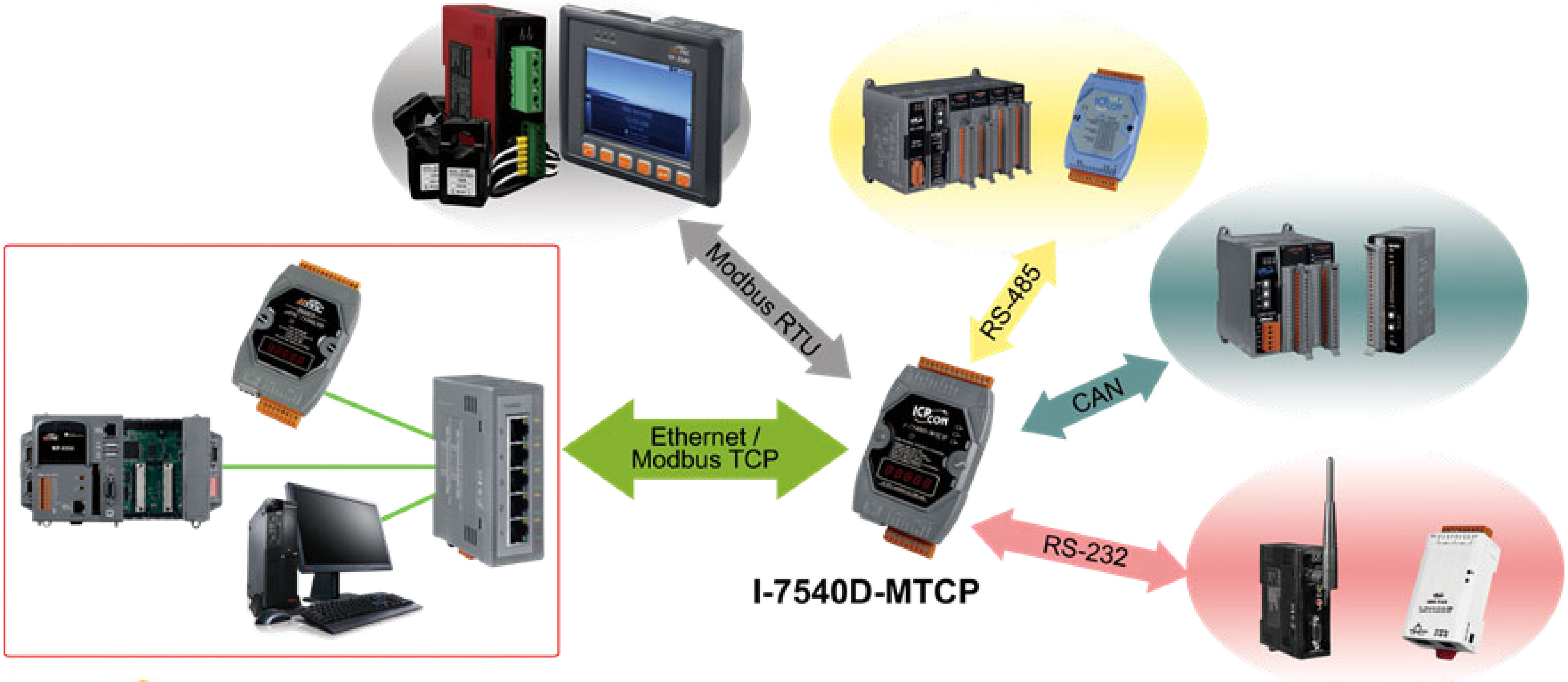
Feature :

- **Compatible with CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps.**
- **Support CAN filter configuration.**
- **One CAN /RS-232 /RS-485 port.**
- **One 10/100 Base-T Ethernet port.**
- **Support Modbus TCP Server and Modbus RTU Slave.**
- **Support Max. 25 Ethernet clients.**
- **Support Web configuration.**
- **2500 Vrms isolation on the CAN side.**
- **1 kV galvanic isolation among power supply.**

ICP CON
i-7540D-MTCP
CAN-Modbus TCP/RTU Converter
1K VDC isolation on CAN side

CAN Converter Solutions

- Ethernet to CAN Converter (I-7540D-MTCP)


Modbus RTU
RS-485
CAN
Ethernet / Modbus TCP
RS-232
I-7540D-MTCP

CAN Converter Solutions

Wi-Fi to CAN Converter (I-7540D-WF)

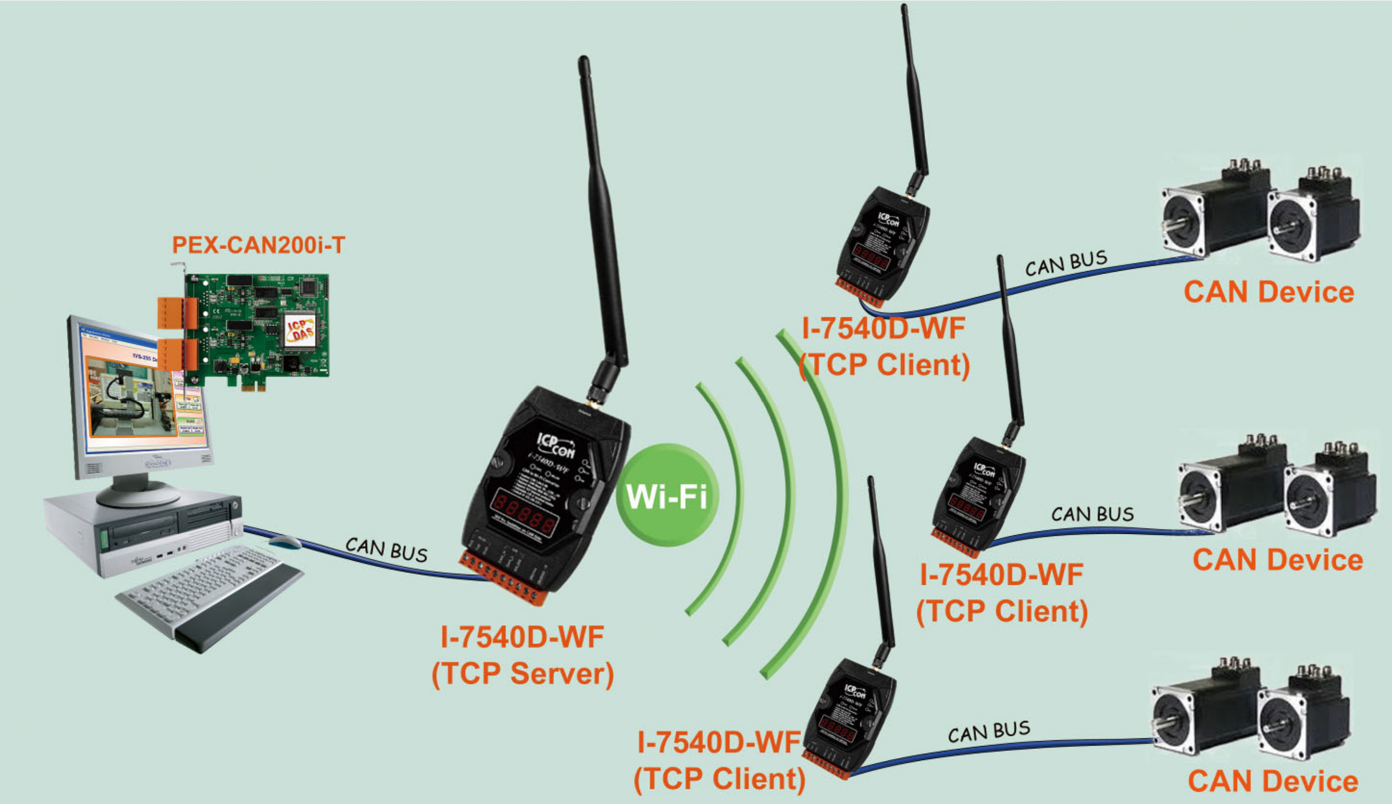
Feature :

- Compatible with CAN 2.0A and 2.0B.
- Baud rate : 5k ~ 1M bps.
- Compliant with IEEE 802.11b/g.
- Supports WEP, WPA and WPA2 encryption for wireless LAN.
- Support infrastructure and ad-hoc modes.
- point to point or point to multi-points connection via wireless LAN.
- Built-in CAN message buffer.
- Wireless communication: 100m ~ 300m.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

RoHS

CAN Converter Solutions

- **Wi-Fi to CAN Converter (I-7540D-WF)**


PEX-CAN200i-T
CAN BUS
I-7540D-WF
(TCP Server)
Wi-Fi
I-7540D-WF
(TCP Client)
CAN BUS
CAN Device
I-7540D-WF
(TCP Client)
CAN BUS
CAN Device
I-7540D-WF
(TCP Client)
CAN BUS
CAN Device

CAN Converter Solutions

CAN bus Repeater (I-7531)

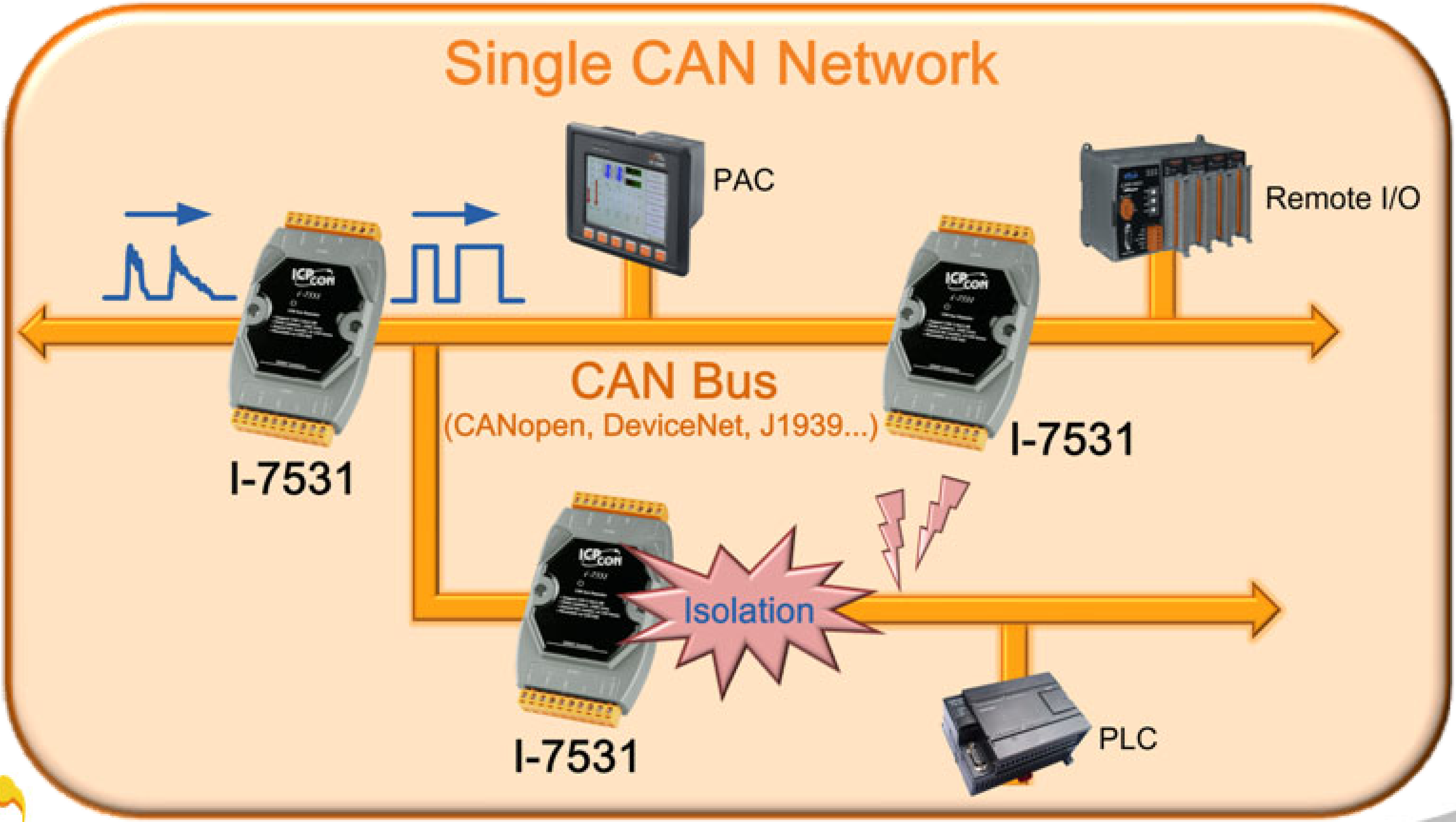
Feature :

- Compatible with CAN 2.0A and 2.0B.
- Auto-baud detection from 10 k ~ 800 kbps
- Up to 100 nodes on CAN port.
- Rebuild CAN signal.
- Not support extending CAN bus distance.
- 2500 Vrms isolation on the CAN side
- 3 kV galvanic isolation among power supply.

ICP CON
i-7531
CAN bus Repeater
• Support CAN 2.0A/2.0B
• Photo-isolation: 2500 Vrms
• Expand the number of CAN buses
• Mountable on DIN Rail
3000V Isolation
(CAN)
CAN_L
CAN_H
GND
FG
(R)+VS+
(B)GND-10

CAN Converter Solutions

- **CAN bus Repeater (I-7531)**


Single CAN Network
PAC
Remote I/O
CAN Bus
(CANopen, DeviceNet, J1939...)
I-7531
I-7531
I-7531
Isolation
PLC

CAN Converter Solutions

- ## CAN bus Bridge (I-7532)

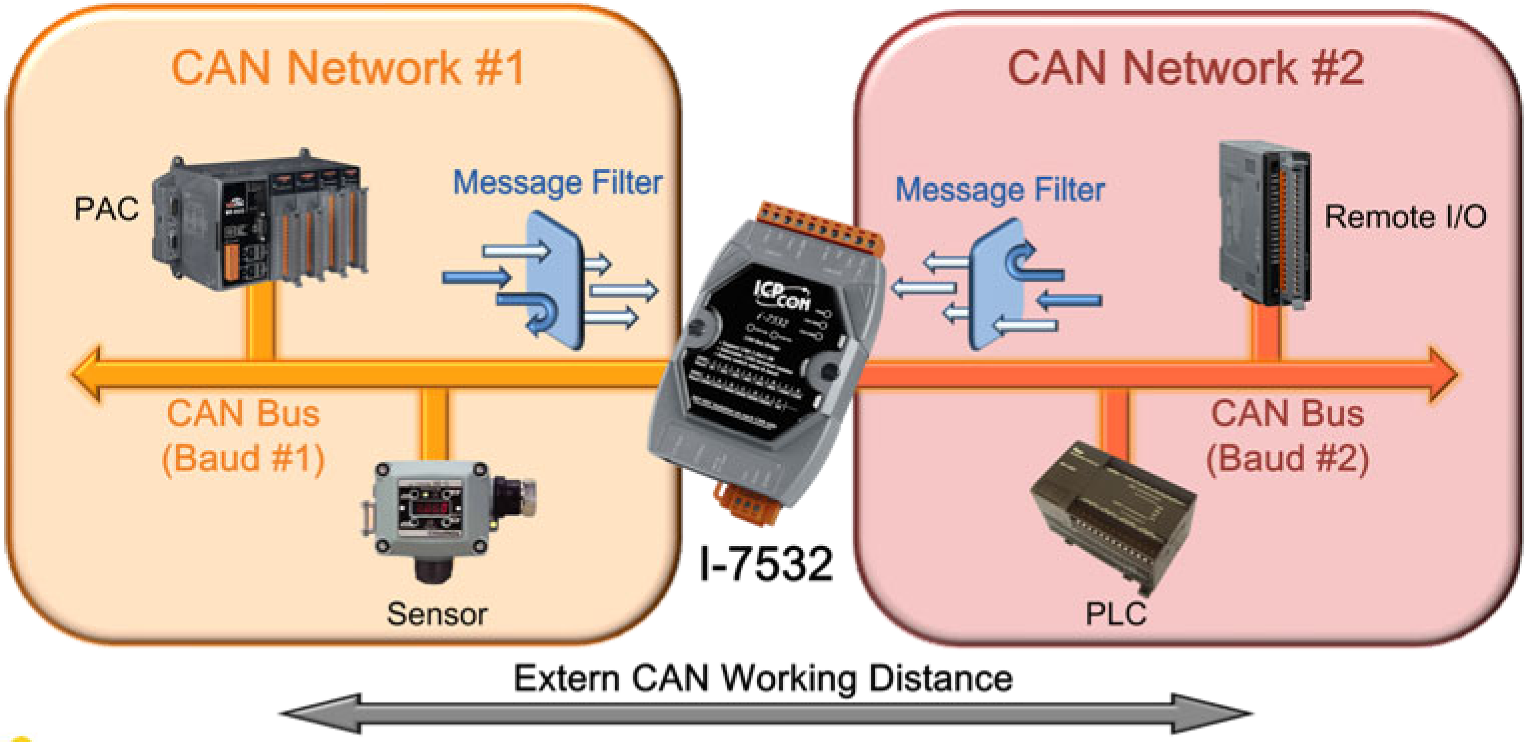
Feature :

- Compatible with CAN 2.0A and 2.0B.
- Selectable baud rate : 5 k ~ 1 Mbps.
- Support user-define baud rate.
- Support CAN filter configuration.
- Up to 100 nodes on CAN port
- Extend CAN bus working distance.
- Rebuild CAN signal.
- Built-in CAN message buffer.
- 2500 Vrms isolation on the CAN side
- 3 kV galvanic isolation among power supply.

ICP CON
i-7532
CAN Bus Bridge
• Support CAN 2.0A/2.0B
• Selectable 120Ω terminal resistor
• Rotary switch value & baud:
3KV VDC Isolation on each CAN side

CAN Converter Solutions

- **CAN bus Bridge (I-7532)**


CAN Network #1
PAC
Message Filter
CAN Bus
(Baud #1)
Sensor
I-7532
CAN Network #2
Message Filter
Remote I/O
CAN Bus
(Baud #2)
PLC
Extern CAN Working Distance

CAN Converter Solutions

CAN Products		
	I-7531	**I-7532**
Product Type	**CAN bus Repeater**	**CAN bus Bridge**
Baud Rate	**Auto-detect**	**5k~1Mbps**
Propagation Delay	125 ns	120 us
Extend CAN bus	X	V
Rebuild CAN Signal	V	V
Built-in CAN Buffer	V	V
Max. CAN nodes	**At least 100**	**At least 100**
Isolated CAN	V	V

CAN Converter Solutions

CAN bus Switch (I-2534)

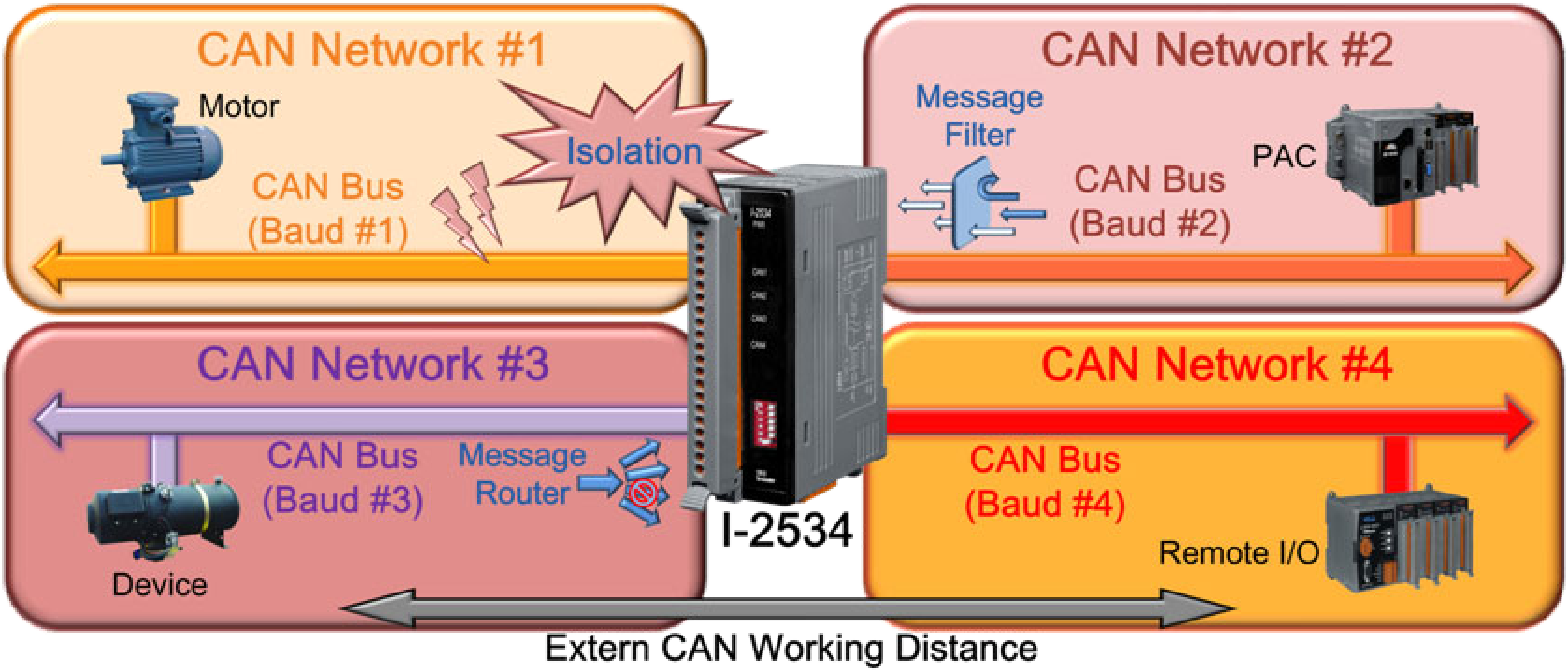
Feature :

- Compatible with CAN 2.0A and 2.0B.
- Selectable baud rate : 5 k ~ 1 Mbps.
- Support user-define baud rate.
- Support CAN filter configuration.
- Configurable route path.
- Extend CAN bus working distance.
- Rebuild CAN signal.
- Built-in CAN message buffer.
- Support Tree or Star topology.
- 2500 Vrms isolation on the CAN side
- 3 kV galvanic isolation among power supply.

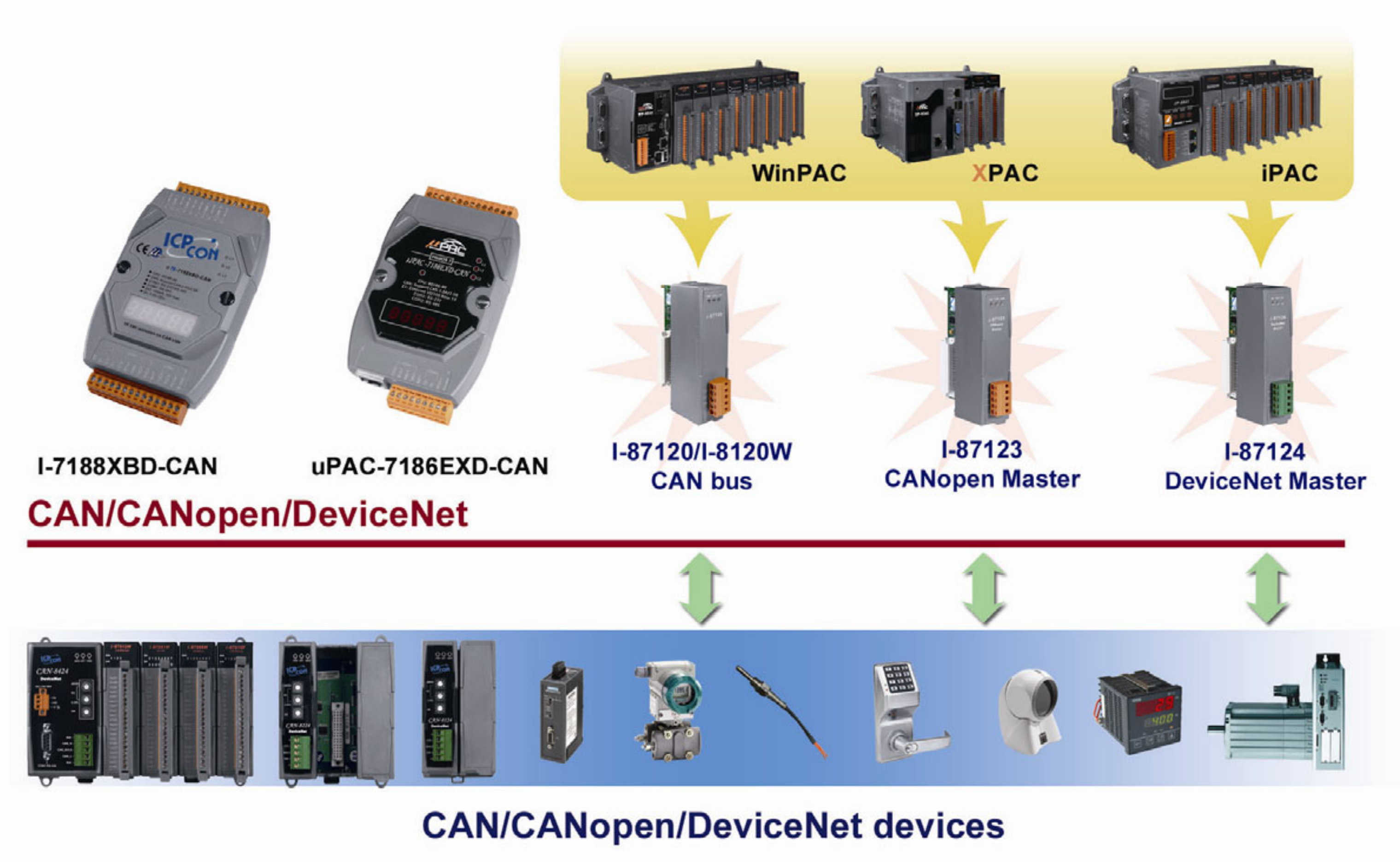
PWR
CAN1
CAN2
CAN3
CAN4
ON
1 2 3 4 5 6
120 Ω
N/A
N/A
120 Ω Terminator

CAN Converter Solutions

- **CAN bus Switch (I-2534)**


CAN Network #1
Motor
Isolation
CAN Bus (Baud #1)
CAN Network #2
Message Filter
PAC
CAN Bus (Baud #2)
CAN Network #3
CAN Bus (Baud #3)
Message Router
Device
I-2534
CAN Network #4
CAN Bus (Baud #4)
Remote I/O
Extern CAN Working Distance

PAC Solutions


WinPAC
XPAC
iPAC
I-7188XBD-CAN
uPAC-7186EXD-CAN
I-87120/I-8120W
CAN bus
I-87123
CANopen Master
I-87124
DeviceNet Master
CAN/CANopen/DeviceNet
CAN/CANopen/DeviceNet devices

CAN bus uPAC Solutions

CAN bus PAC Products	
Palm size CAN PAC with UART and DI/DO	I-7188XBD-CAN
Palm size CAN PAC with Ethernet / UART and DI/DO	uPAC-7186EXD-CAN
Palm size CAN PAC With Ethernet / microSD / UART	uPAC-5001D-CAN1 uPAC-5001D-CAN2
CAN PAC Module for XPAC / WinPAC / ViewPAC	I-87120 , I-8120W

CAN bus uPAC Solutions

- Palm size CAN PAC (I-7188XBD-CAN)

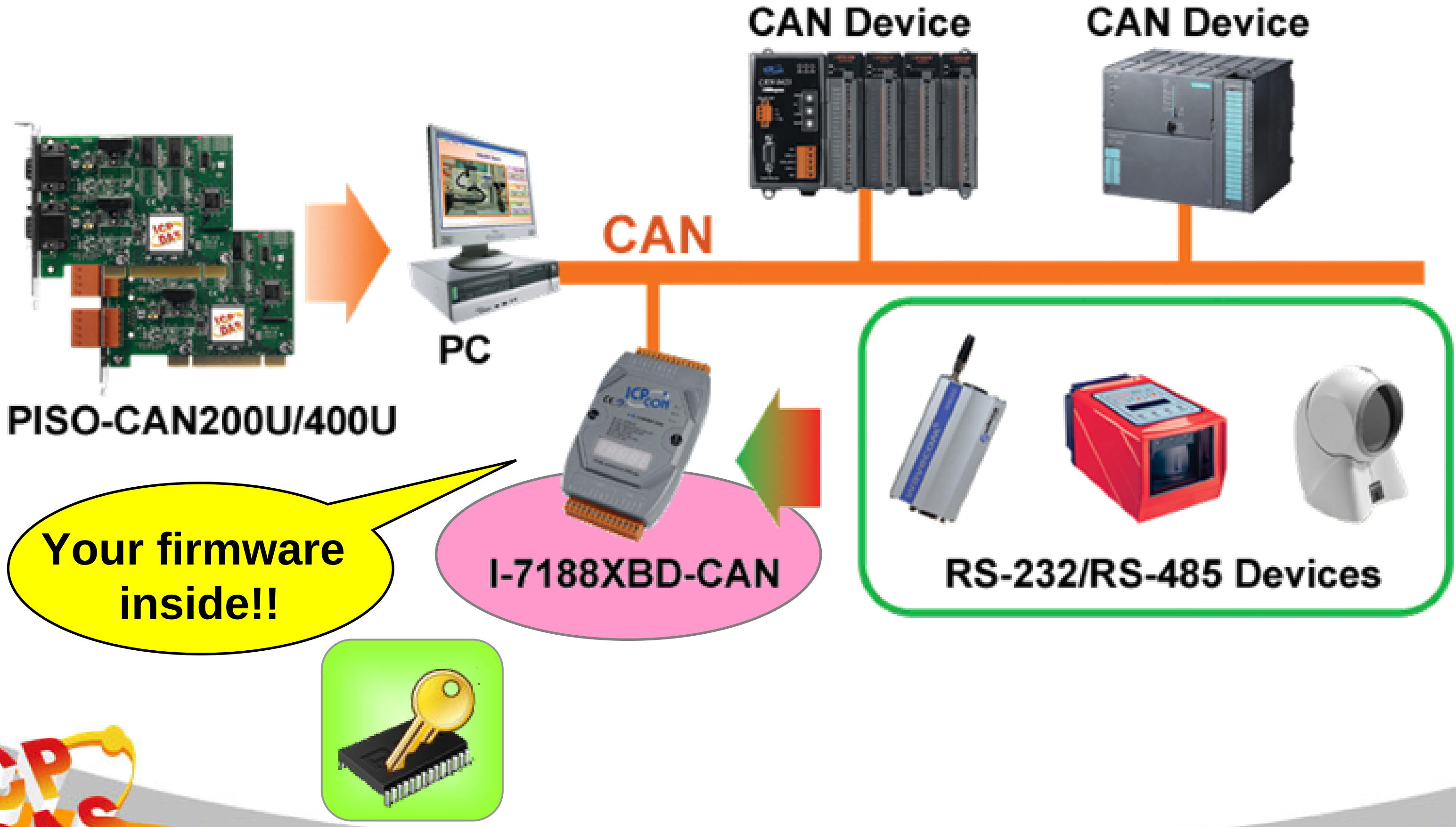
Feature :

- 80186, 40MHz CPU.
- 512K bytes SRAM.
- 512K bytes Flash.
- 2K byte EEPROM.
- Support C/C++ programming language.
- Built-in ICP DAS's MiniOS 7.
- Built-in an unique Hardware Serial No.
- Built-in CAN / UART / DO / DI channels.
- 7-segment LED display.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

ICP CON
I-7188XBD-CAN
1K Vdc isolation on CAN side

CAN bus uPAC Solutions

- **Palm size CAN PAC (I-7188XBD-CAN)**



CAN Device

CAN Device

CAN

PC

PISO-CAN200U/400U

I-7188XBD-CAN

RS-232/RS-485 Devices

Your firmware inside!!

CAN bus uPAC Solutions

- **Palm size CAN PAC with Ethernet (uPAC-7186EXD-CAN)**

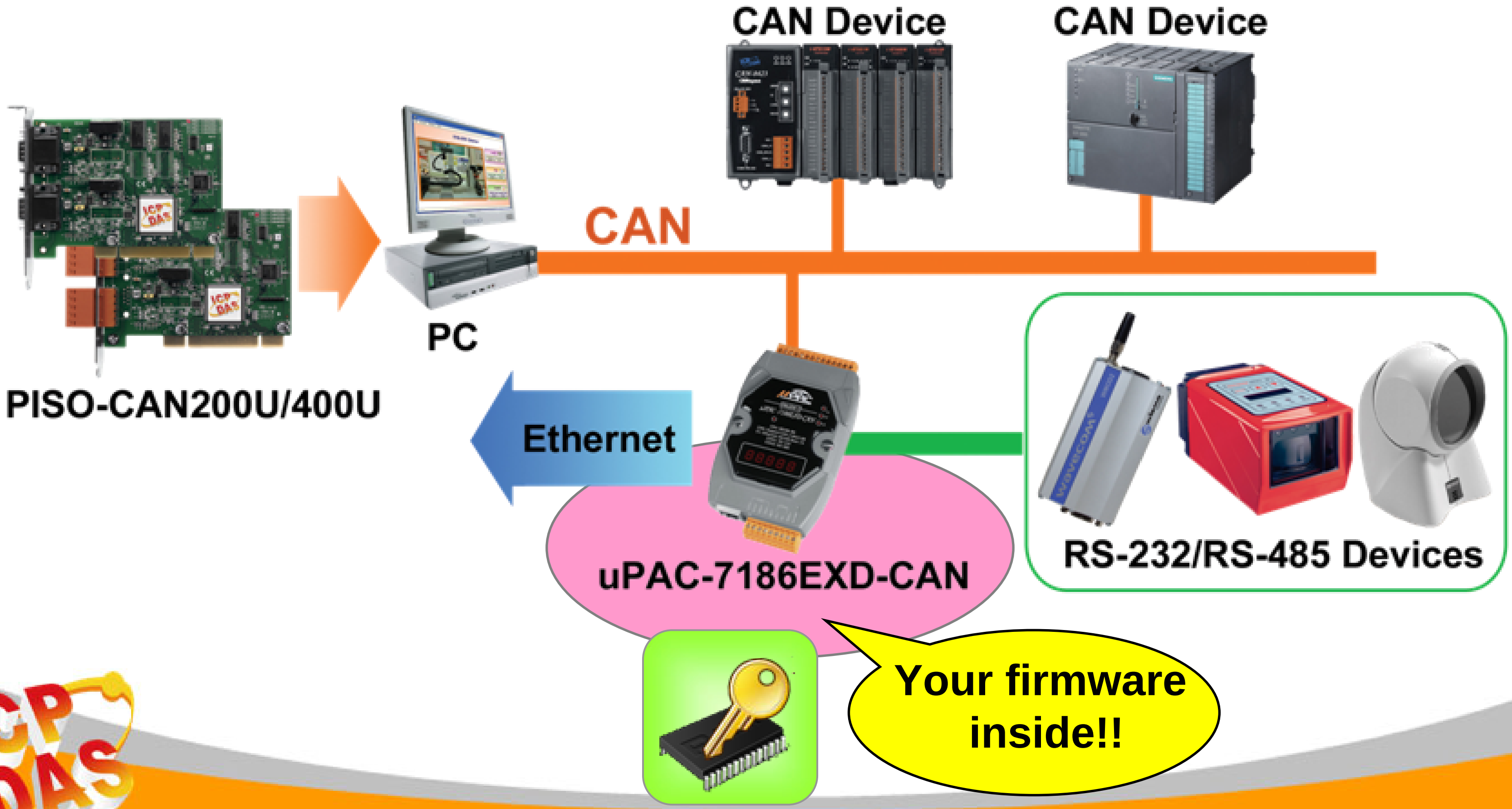
Feature :

- 80186, 80MHz CPU.
- 512K bytes SRAM.
- 512K bytes Flash.
- 2K byte EEPROM.
- Support C/C++ programming language.
- Built-in ICP DAS's MiniOS 7.
- Built-in an unique Hardware Serial No.
- Built-in CAN / UART / DO / DI channels.
- 10/100 BASE-T Ethernet Controller.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

µPAC
MiniOS 7
uPAC-7186EXD-CAN
CPU: 80186-80
CAN: Support CAN 2.0A/2.0B
E1: Ethernet 10/100 Base TX
COM1: RS-232
COM2: RS-485
COM1
COM2

CAN bus uPAC Solutions

- **uPAC-7186EXD-CAN (Programmable CAN Controller)**



CAN Device

CAN Device

CAN

PC

PISO-CAN200U/400U

Ethernet

uPAC-7186EXD-CAN

RS-232/RS-485 Devices

Your firmware inside!!

CAN bus uPAC Solutions

- CAN PAC with various storage media (uPAC-5001D-CAN)

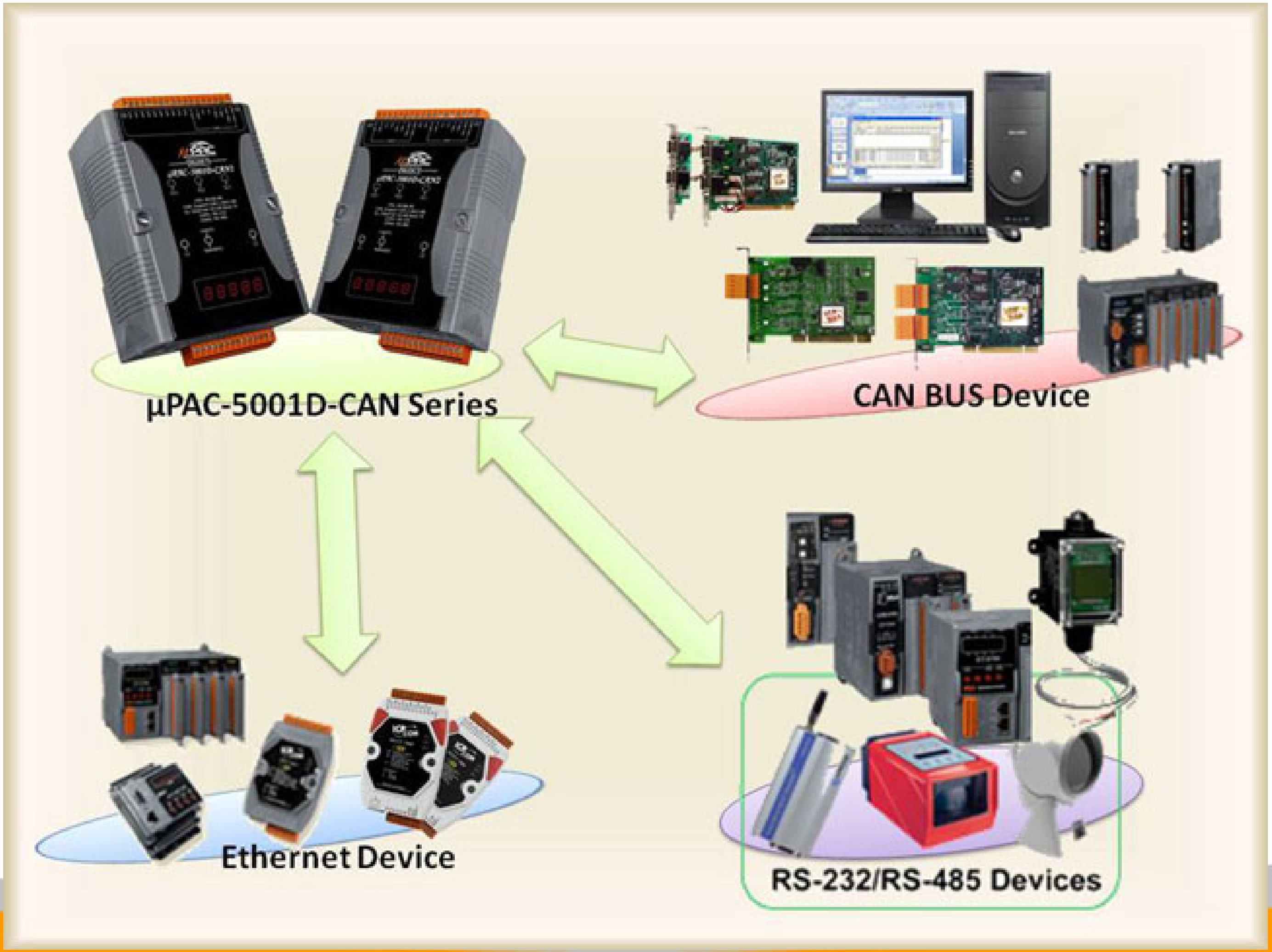
Feature :

- 80186, 80MHz CPU.
- 512K bytes SRAM.
- 512K bytes Flash.
- 16K byte EEPROM.
- Support 2GB microSD.
- Support C/C++ programming language.
- Built-in ICP DAS’s MiniOS 7.
- Built-in an unique Hardware Serial No.
- Built-in CAN / UART / Ethernet channels.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

μPAC
MiniOS 7
uPAC-5001D-CAN2

CAN bus uPAC Solutions

- **CAN PAC with various storage media (uPAC-5001D-CAN)**


µPAC-5001D-CAN Series
CAN BUS Device
Ethernet Device
RS-232/RS-485 Devices

CAN bus uPAC Solutions

- CAN PAC Module (I-87120)

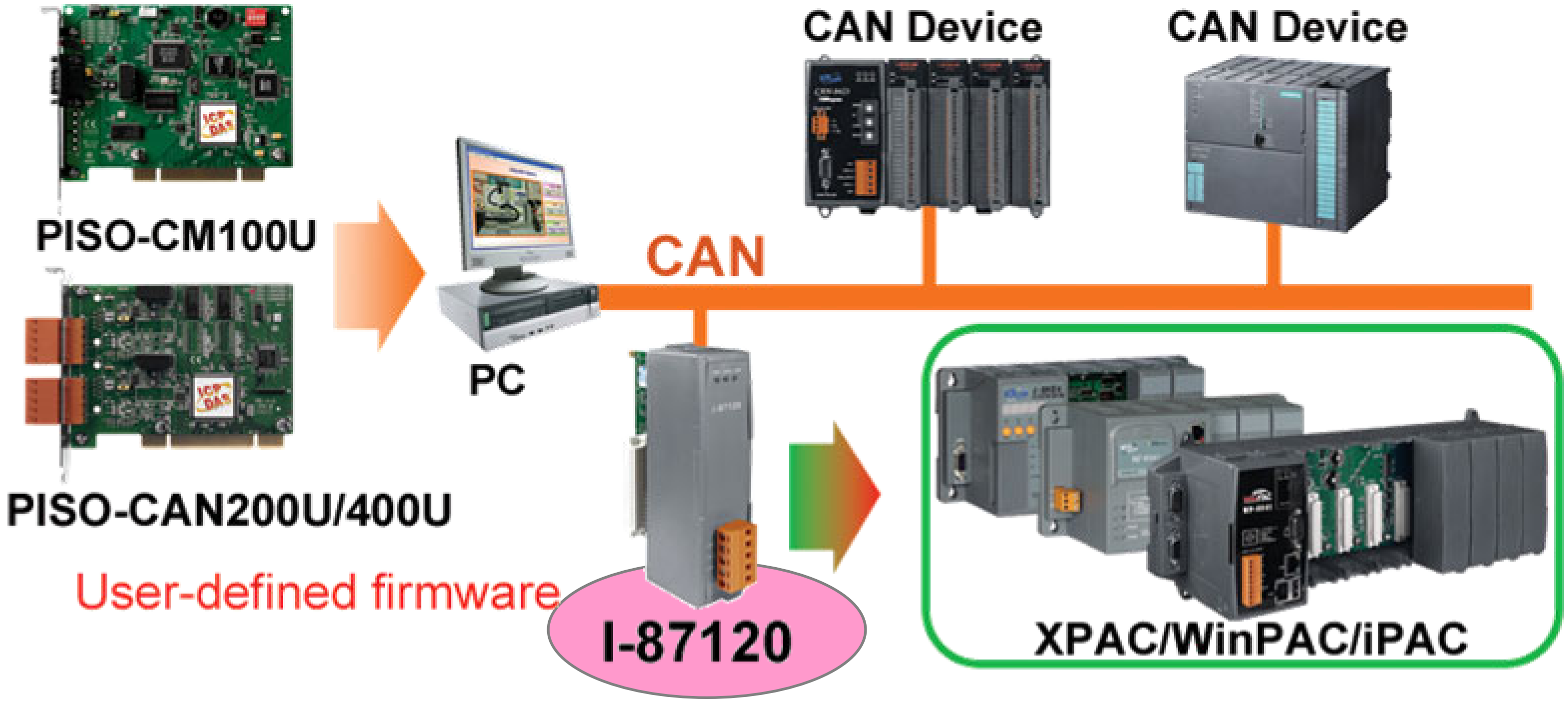
Feature :

- I-87K serial port communication mechanism.
- 80186, 80MHz CPU.
- 512K bytes SRAM.
- 512K bytes Flash.
- 2K byte EEPROM.
- Firmware support C/C++ language.
- Built-in ICP DAS’s MiniOS 7.
- Support XPAC / WinPAC / ViewPAC controller.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

PWR TxRx ERR
i-87120

CAN bus uPAC Solutions

- **CAN PAC Module (I-87120)**


CAN Device
CAN Device
PISO-CM100U
PC
CAN
PISO-CAN200U/400U
User-defined firmware
I-87120
XPAC/WinPAC/iPAC

CAN bus uPAC Solutions

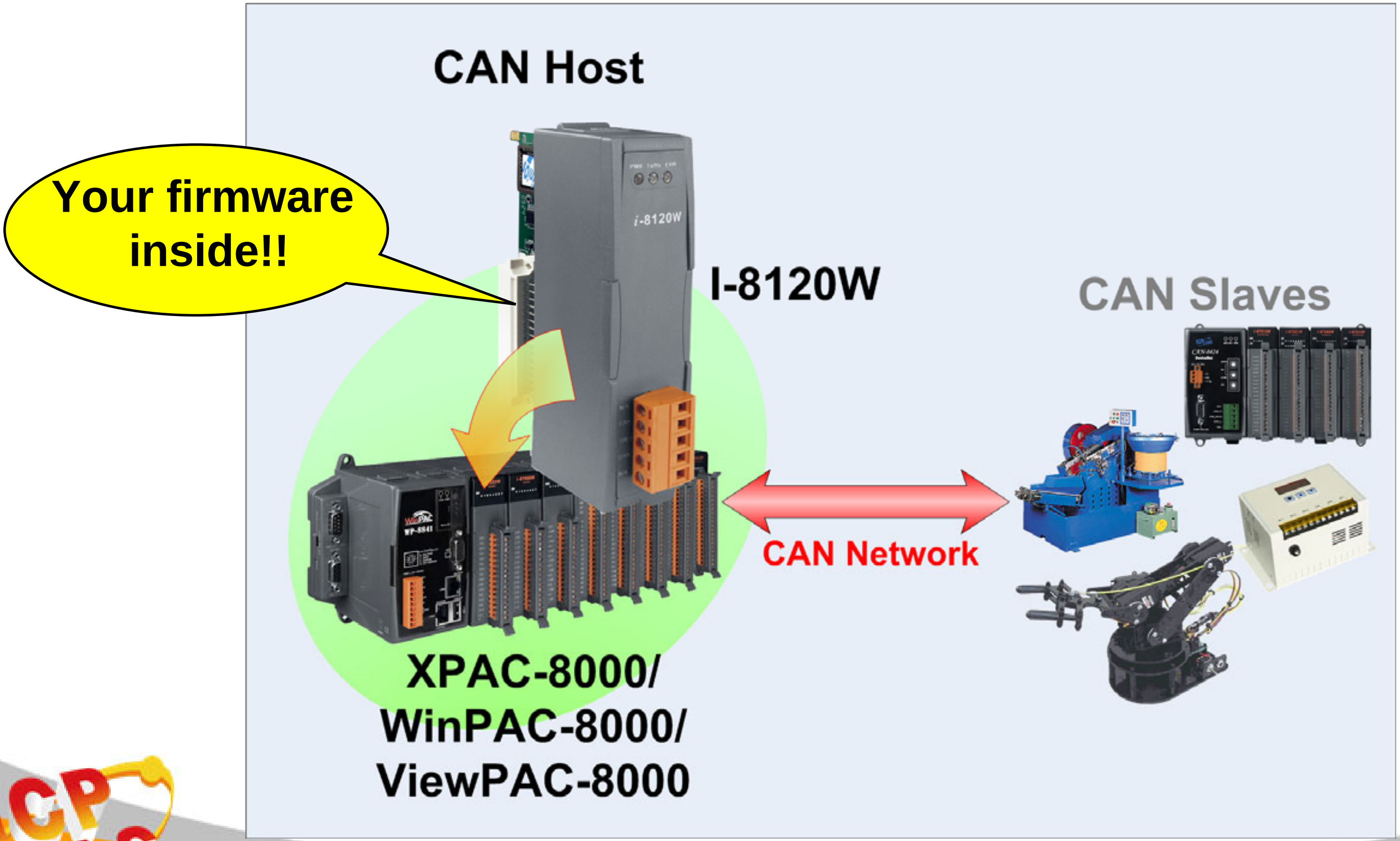
- CAN PAC Module (I-8120W)

Feature :

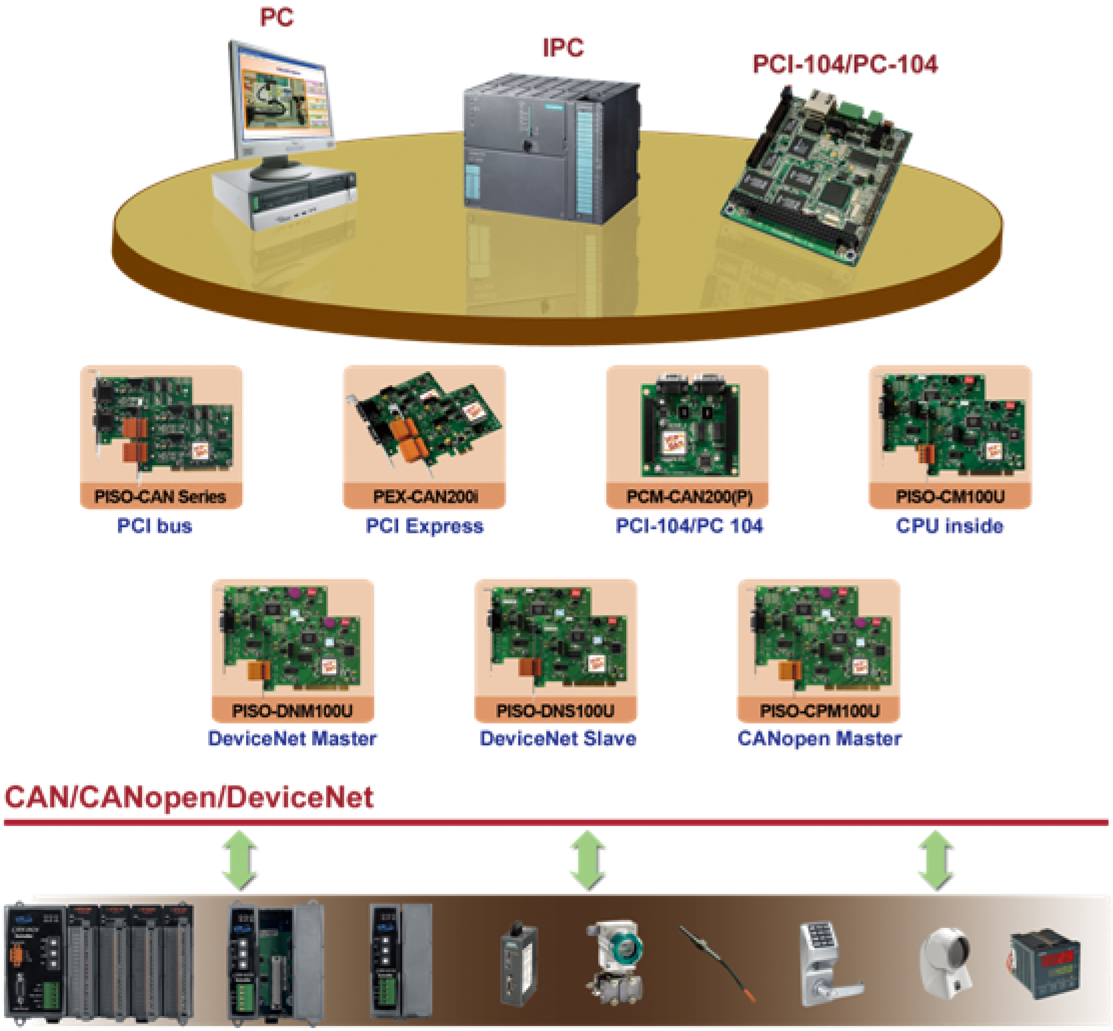
- I-8K parallel port communication mechanism.
- 80186, 80MHz CPU.
- 512K bytes SRAM.
- 512K bytes Flash.
- 2K byte EEPROM.
- Firmware support C/C++ language.
- Built-in ICP DAS's MiniOS 7.
- Support XPAC / WinPAC / ViewPAC controller.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

CAN bus uPAC Solutions

- **CAN PAC Module (I-8120W)**


CAN Host
Your firmware inside!!
i-8120W
I-8120W
CAN Slaves
CAN Network
XPAC-8000/
WinPAC-8000/
ViewPAC-8000

CAN bus PC Board Solutions



PC

IPC

PCI-104/PC-104

PISO-CAN Series
PCI bus

PEX-CAN200i
PCI Express

PCM-CAN200(P)
PCI-104/PC 104

PISO-CM100U
CPU inside

PISO-DNM100U
DeviceNet Master

PISO-DNS100U
DeviceNet Slave

PISO-CPM100U
CANopen Master

CAN/CANopen/DeviceNet

CAN/CANopen/DeviceNet devices

CAN bus PC Board Solutions

CAN bus PC Board Products	
PISO-CAN 100U	1-port CAN bus Universal PCI Board
PISO-CAN 200U	2-port CAN bus Universal PCI Board
PISO-CAN 400U	4-port CAN bus Universal PCI Board
PISO-CAN 800U	8-port CAN bus Universal PCI Board
PEX-CAN 200i	2-port CAN bus PCI-Express Board
PISO-CM 100U	1-port CAN Universal PCI Board with CPU inside
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
PCM-CM100-D	1-port CAN bus PCI-104 Board with CPU inside

※All PC boards have the same CAN bus performance with 7500 FPS.

CAN bus PC Board Solutions

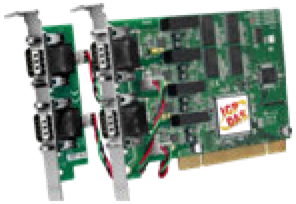
- **1 / 2 / 4 / 8 CAN Ports Universal PCI Board**

PISO-CAN 100U

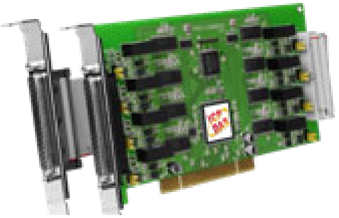
Feature :

- **Universal PCI interface.**
- **Compatible witch CAN 2.0A and 2.0B.**
- **Baud rate : 10k ~ 1M bps and user-defined.**
- **Support CAN filter configuration.**
- **Provide software utility and Demos.**
- **Support LabVIEW and DASYLab drivers.**
- **Support CAN OPC server.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

PISO-CAN 200U



PISO-CAN 400U



PISO-CAN 800U

CAN bus PC Board Solutions

- Built-in CPU Universal PCI Board (PISO-CM100U)

Feature :

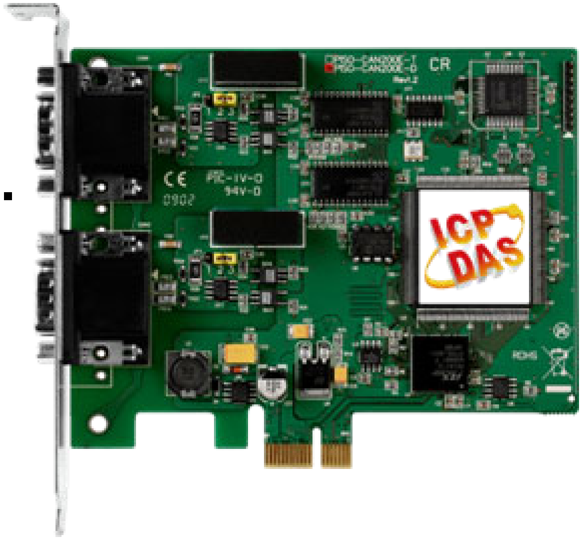
- Universal PCI interface.
- Compatible witch CAN 2.0A and 2.0B.
- Follow ISO-11898-2 standard.
- Baud rate : 10k ~ 1M bps and user-defined.
- Support user-defined firmware.
- Built-in 80186, 80MHz CPU.
- Provide software utility and Demos.
- Support LabVIEW and DASYLab drivers.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

CAN bus PC Board Solutions

- 2-port CAN PCI-Express Board (PEX-CAN 200i)

Feature :

- PCI-Express interface.
- Compatible witch CAN 2.0A and 2.0B.
- Follow ISO-11898-2 standard.
- Baud rate : 10k ~ 1M bps and user-defined.
- Support CAN filter configuration.
- Provide software utility and Demos.
- Support LabVIEW and DASYLab drivers.
- Support CAN OPC server.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.



CAN bus PC Board Solutions

- **1-port CAN PCI-104 Board (PCM-CAN 100)**
- **2-port CAN PCI-104 Board (PCM-CAN 200)**

PCM-CAN 100

Feature :

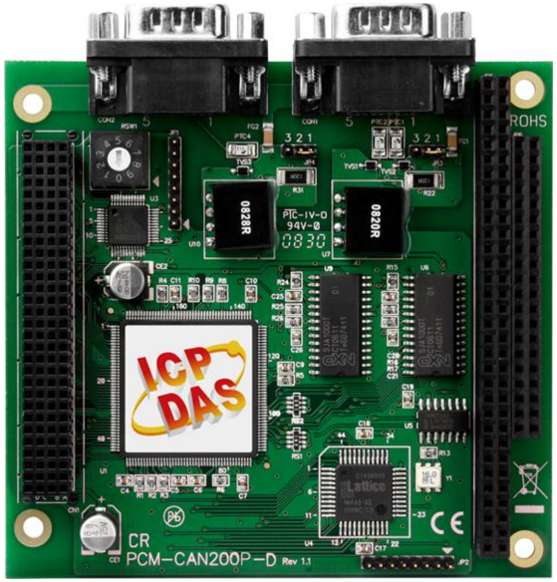
- **PCI-104 interface.**
- **Compatible witch CAN 2.0A and 2.0B.**
- **Follow ISO-11898-2 standard.**
- **Baud rate : 10k ~ 1M bps and user-defined.**
- **Support LabVIEW and DASYLab drivers.**
- **Provide software utility and Demos.**
- **Support CAN OPC server.**
- **2500 Vrms isolation on the CAN side.**
- **3 kV galvanic isolation among power supply.**

PCM-CAN 200

CAN bus PC Board Solutions

- 2-port CAN PC-104+ Board (PCM-CAN 200P)

Feature :



- PC-104+ interface.
- Compatible witch CAN 2.0A and 2.0B.
- Follow ISO-11898-2 standard.
- Baud rate : 10k ~ 1M bps and user-define.
- Support LabVIEW and DASYLab drivers.
- Provide software utility and Demos.
- Support CAN OPC server.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

CAN bus PC Board Solutions

- **Built-in CPU PCI-104 Board (PCM-CM100-D)**

Feature :

- PCI-104 interface.
- Compatible witch CAN 2.0A and 2.0B.
- Follow ISO-11898-2 standard.
- Baud rate : 10k ~ 1M bps and user-defined.
- Support user-defined firmware.
- Built-in 80186, 80MHz CPU.
- Provide software utility and Demos.
- Support LabVIEW and DASYLab drivers.
- 2500 Vrms isolation on the CAN side.
- 3 kV galvanic isolation among power supply.

PCM-CM100-D
ICP DAS

RoHS

Software Drivers

Active X
OPC Server: NAP OPC.CAN
Microsoft Visual C++ 6.0 Enterprise Edition
InduSoft Tools for Automation
Microsoft Visual Studio.net
NATIONAL INSTRUMENTS LabVIEW
DASYLab Data Acquisition System Laboratory

Other CAN Products

Description	Product Name
3 Phase Compact Power Meter	PM-2133-CAN
4 Loop 1 Phase Compact Power Meter	PM-2134-CAN
7/14 channels Surge Protector	SG-770
CAN bus Connector	CNT-CAN
9-pin Female D-sub & 3-wire CAN bus cable	CA-0910-C

CAN bus Power Meter

- 3 Phase Compact Power Meter (PM-2133-CAN)
- 4 Loop 1 Phase Compact Power Meter (PM-2134-CAN)

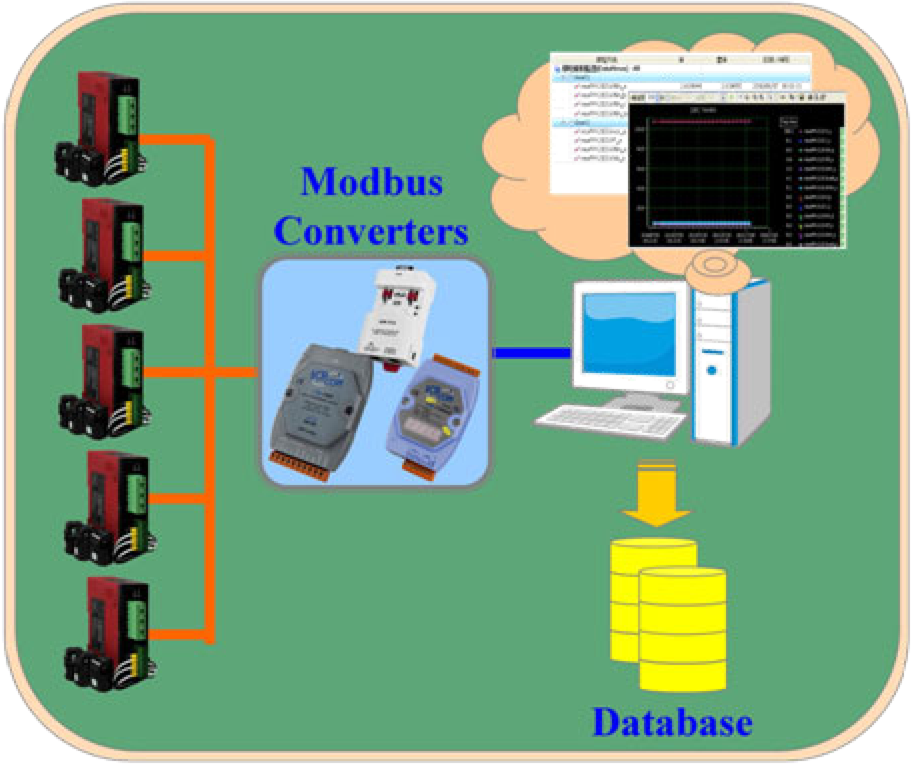
Feature :

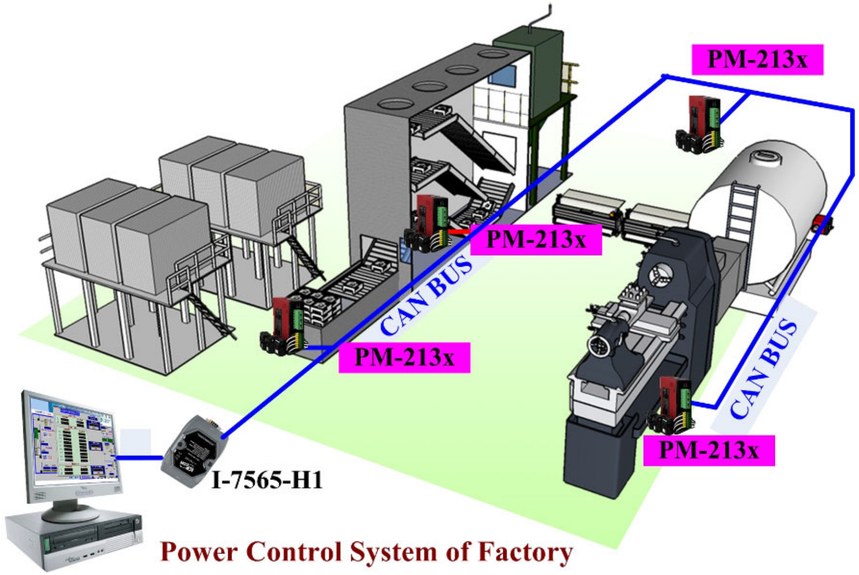
- True RMS energy and power parameters measurement in compact size.
- Easy wiring for on-line installation.
- Wh accuracy better than 1%(PF=1).
- RS-485 communication supported Modbus RTU protocol.
- CAN Bus communication compatible with CAN 2.0B.
- Support Poll and Auto-response mode on CAN communication.
- 4 kV ESD protection.

RoHS

CAN bus Power Meter

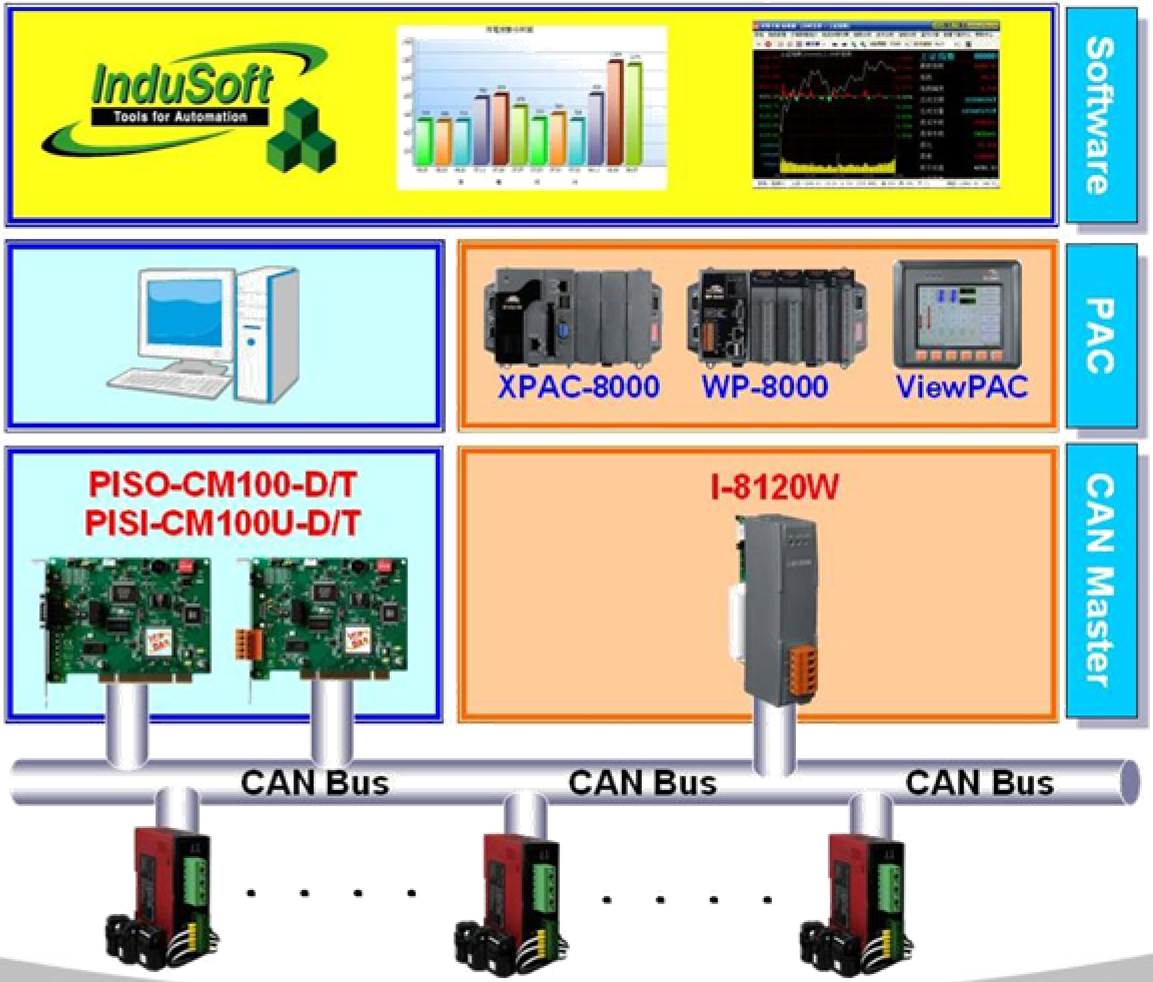
- 3 Phase Compact Power Meter (PM-2133-CAN)
- 4 Loop 1 Phase Compact Power Meter (PM-2134-CAN)


Modbus Converters
Database


PM-213x
PM-213x
CAN BUS
PM-213x
CAN BUS
PM-213x
I-7565-H1
Power Control System of Factory

CAN Power Meter Master Solutions

- I-8120W / PISO-CM100U with Power Meter Firmware

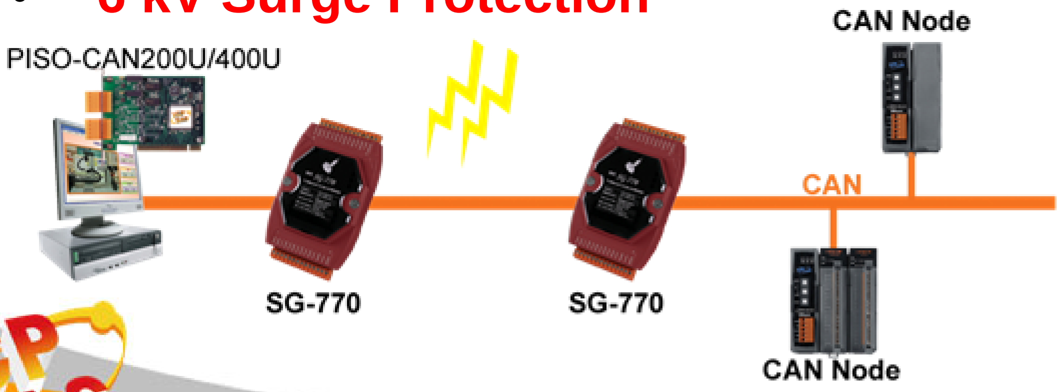

InduSoft
Tools for Automation
Software
XPAC-8000
WP-8000
ViewPAC
PAC
PISO-CM100-D/T
PISI-CM100U-D/T
I-8120W
CAN Master
CAN Bus
CAN Bus
CAN Bus

CAN Bus Surge Protector

- 7 / 14 channels Surge Protector

Feature :

- Follow the IEC 61000-4-5 and IEC 61000-4-12
- 7 differential or 14 single-ended input channels.
- Input Signal Type : Voltage, Current, Thermocouple, RTD, RS-485/422, RS-232, CAN bus, FRnet
- 6 kV Surge Protection


PISO-CAN200U/400U
SG-770
SG-770
CAN Node
CAN
CAN Node

SG-770
7/14-channel surge protector

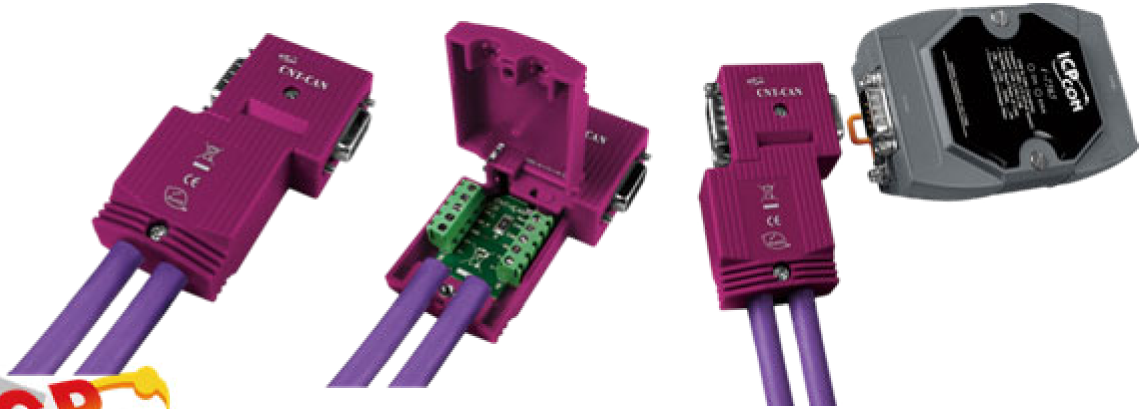
CAN Bus Connector

- **CNT-CAN**

Feature :

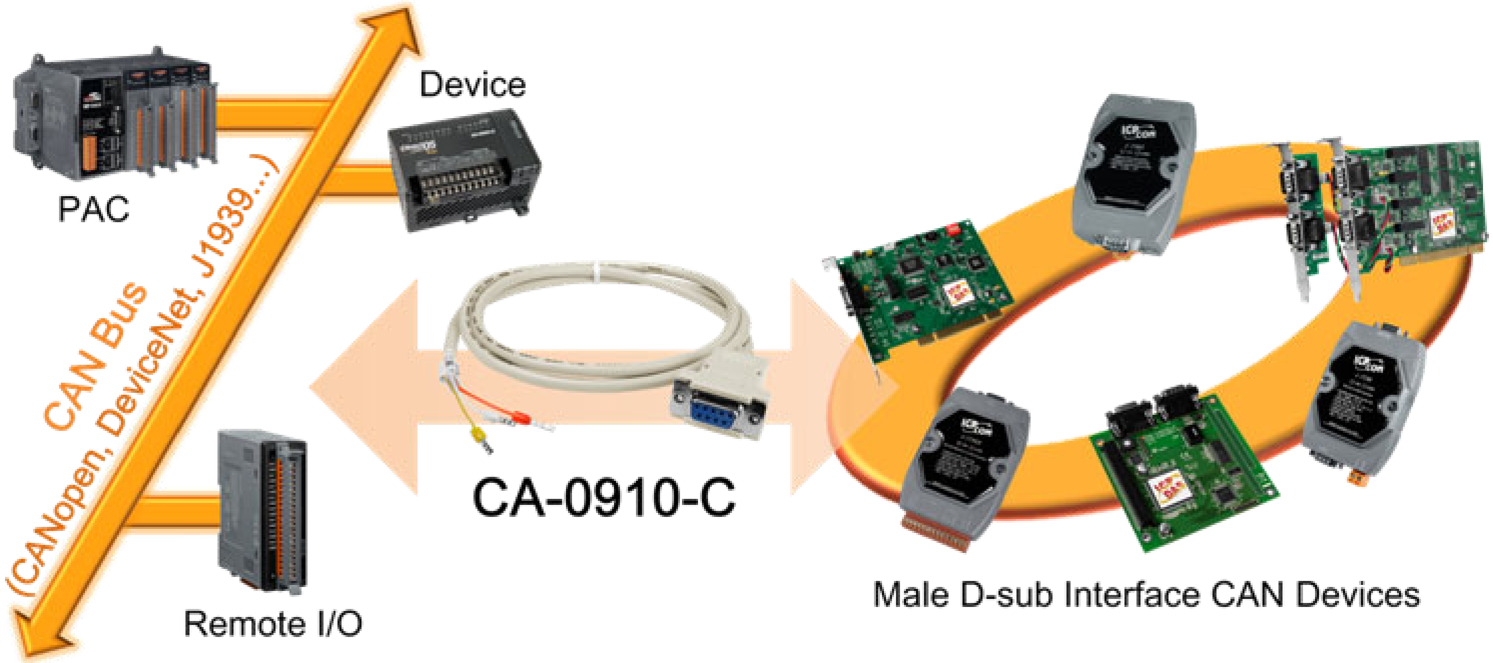
- Built-in switch to select 120Ω terminal resistor.
- 2 cable entries.
- Available with programming interface.
- 90° cable outlet
- Baud rate10kbps ~ 1Mbps

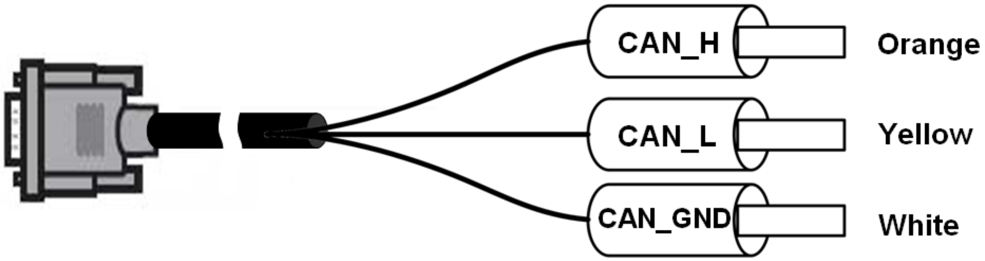
ICP DAS
CNT-CAN
CE
RoHS


CNT-CAN
CNT-CAN
ICPCON

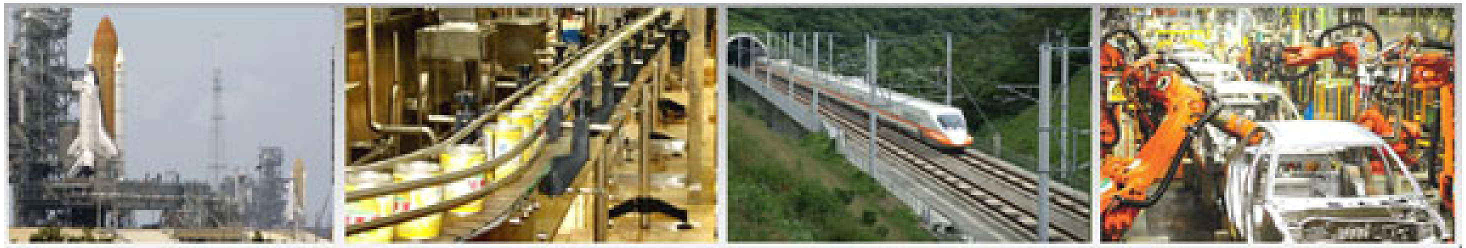
CAN Bus Cable

- **CA-0910-C**

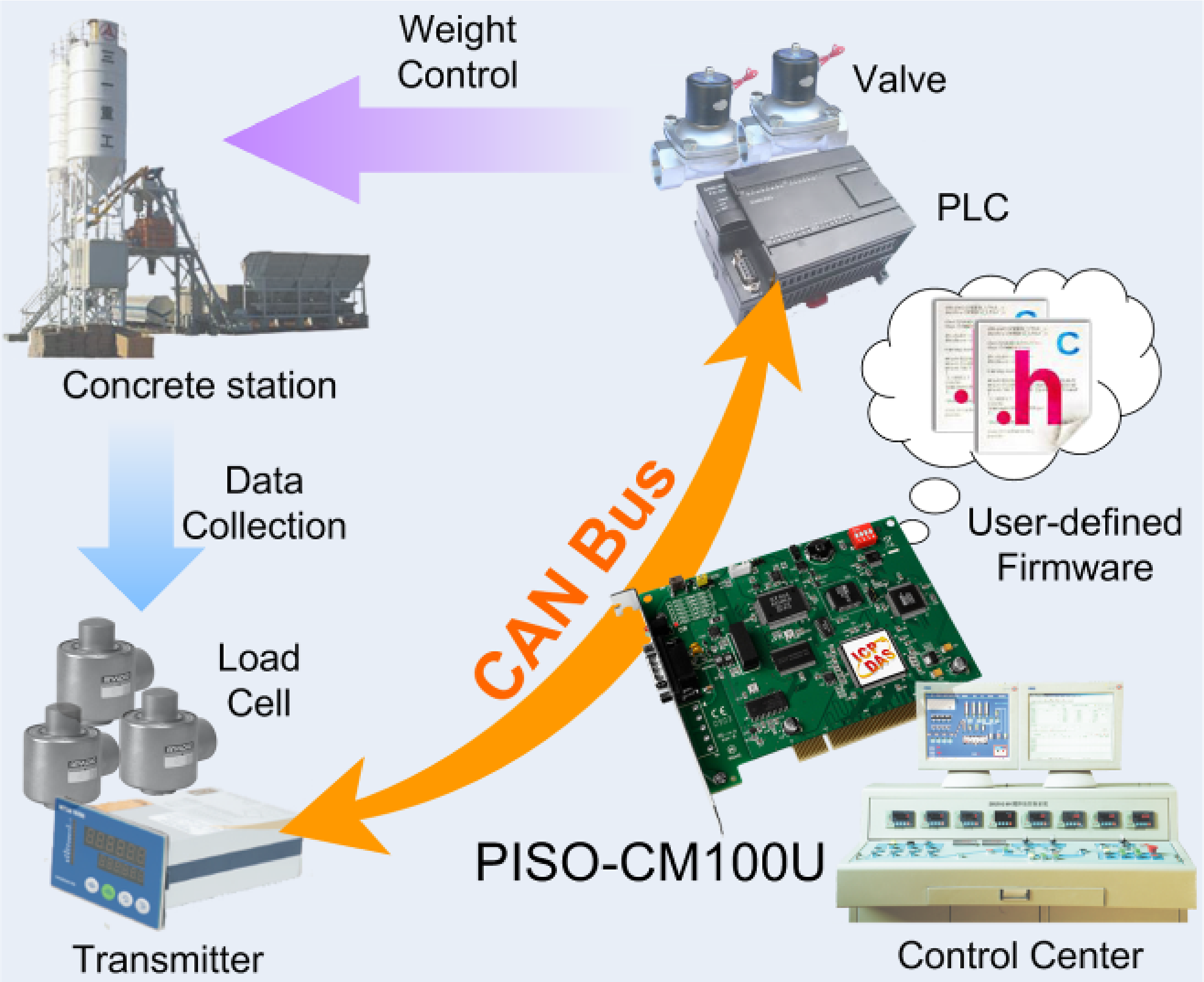

PAC
Device
CAN Bus
(CANopen, DeviceNet, J1939...)
Remote I/O
CA-0910-C
Male D-sub Interface CAN Devices


CAN_H
Orange
CAN_L
Yellow
CAN_GND
White

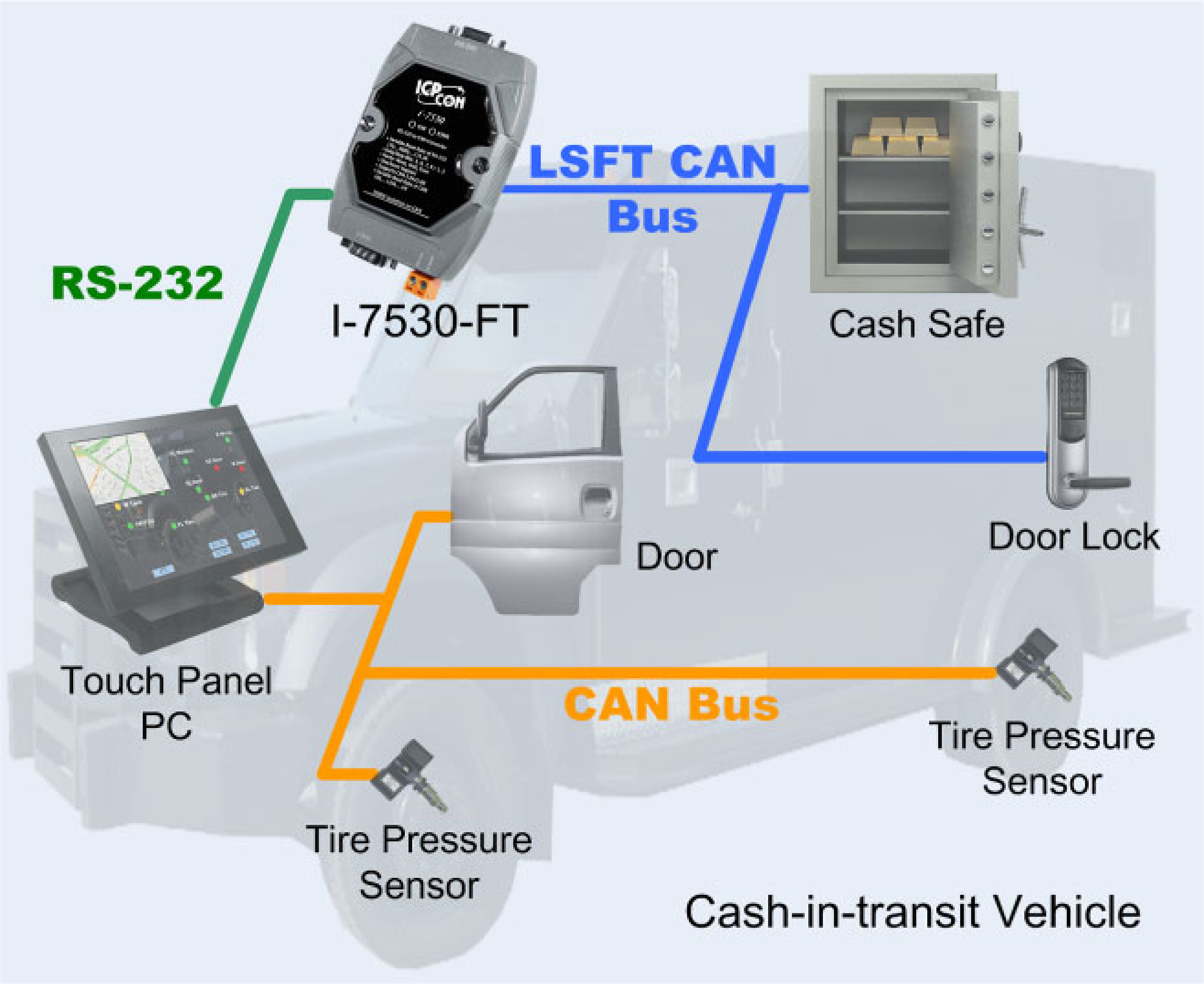
Application References



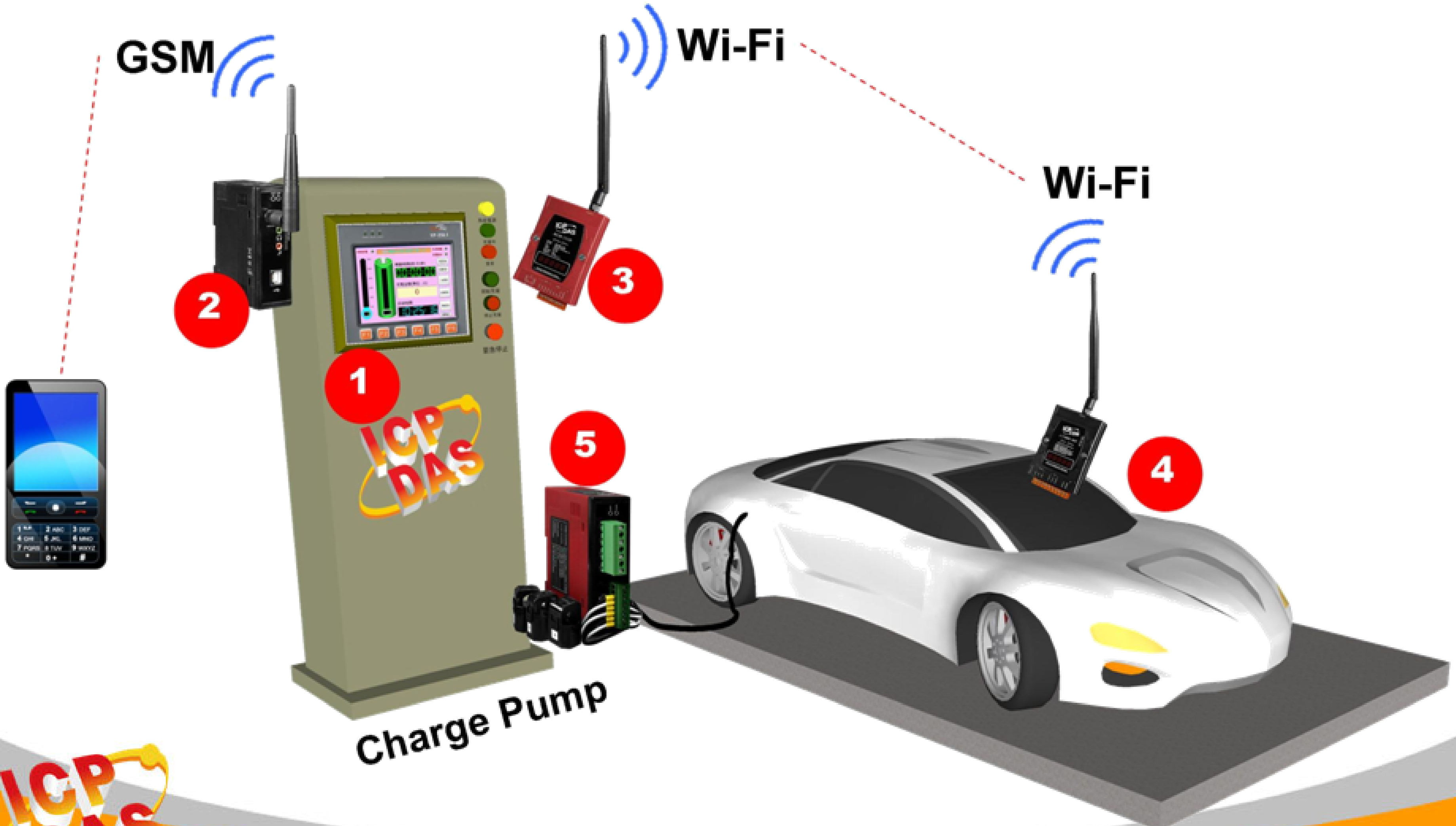
Concrete Station Control System


Weight Control
Valve
PLC
Concrete station
Data Collection
CAN Bus
User-defined Firmware
Load Cell
PISO-CM100U
Transmitter
Control Center

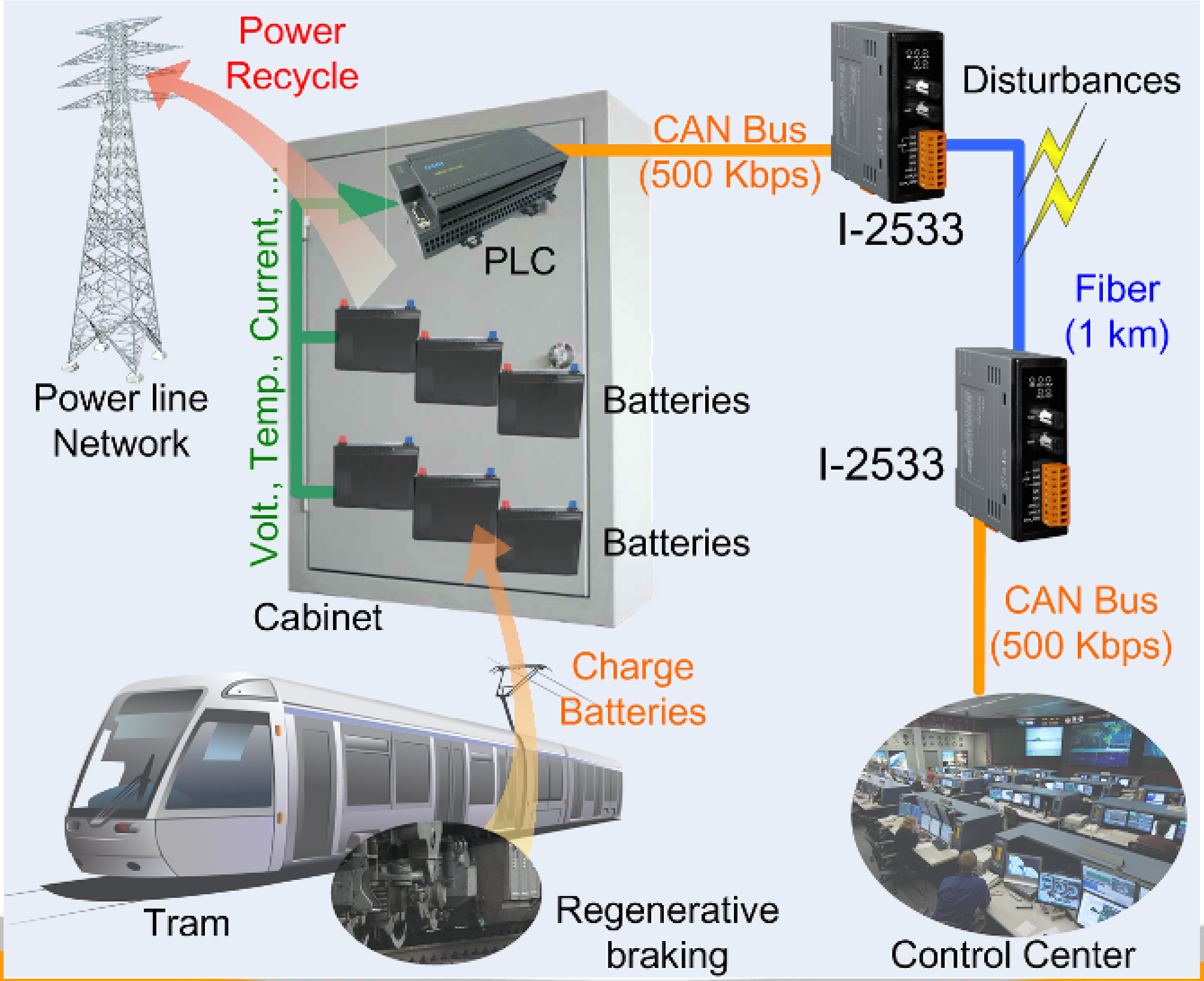
Cash-in-transit Vehicle


RS-232
I-7530-FT
LSFT CAN Bus
Cash Safe
Door Lock
Door
Touch Panel PC
CAN Bus
Tire Pressure Sensor
Tire Pressure Sensor
Cash-in-transit Vehicle

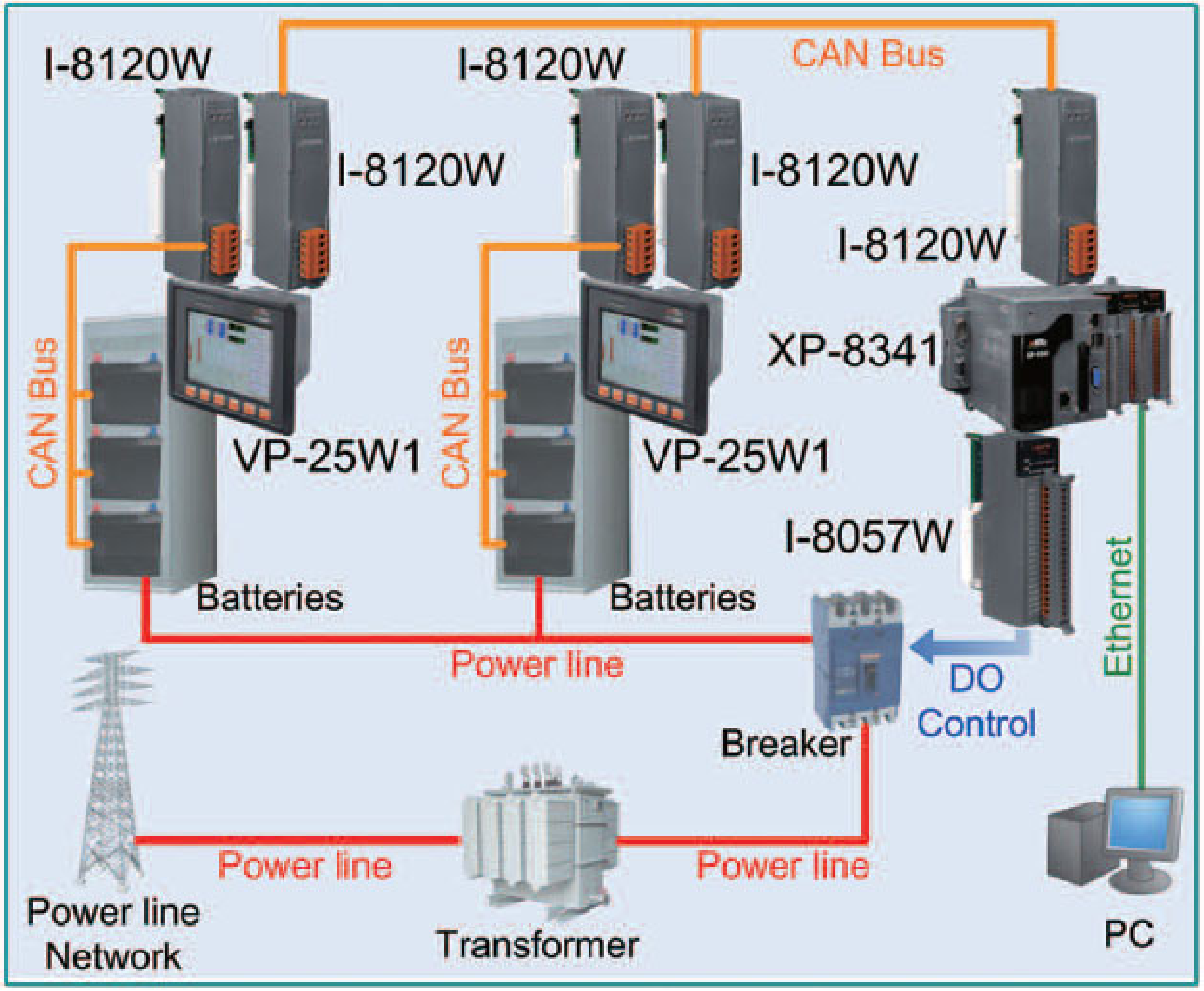
Electric Vehicle Charging System


GSM
Wi-Fi
Wi-Fi
2
3
1
5
4
Charge Pump

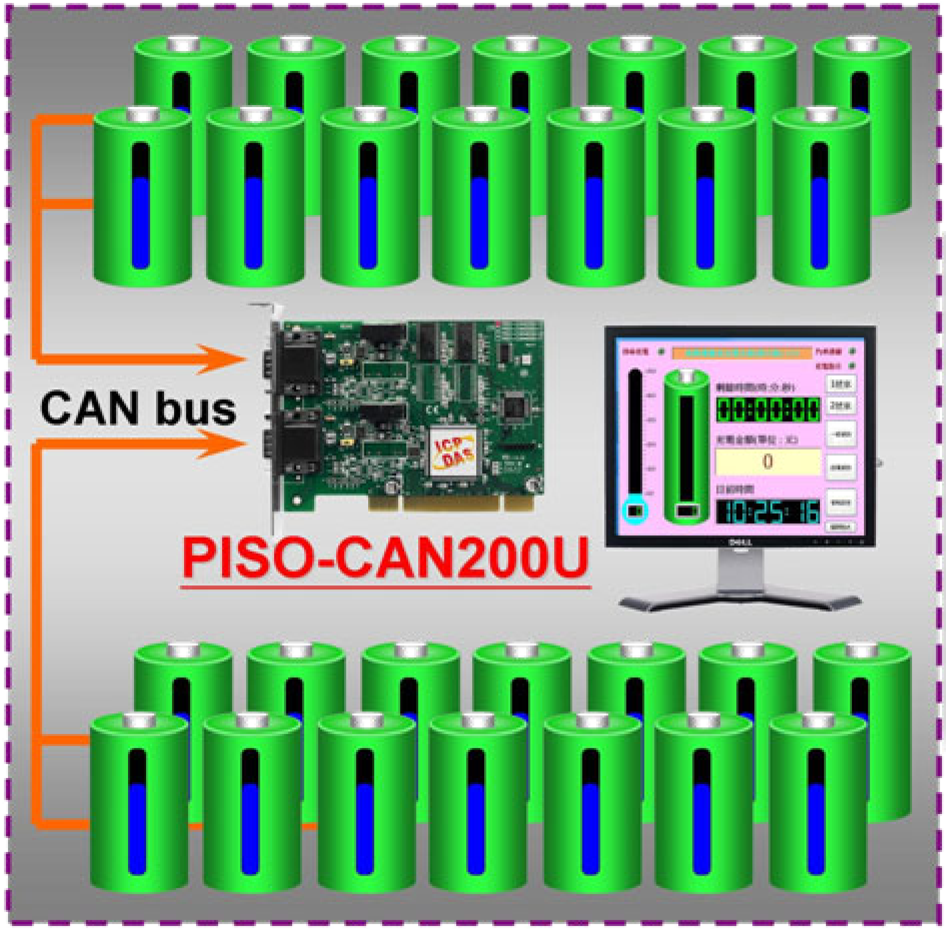
Electric Tram Charging System


Power Recycle
Power line Network
Volt., Temp., Current, ...
PLC
CAN Bus (500 Kbps)
I-2533
Disturbances
Fiber (1 km)
Batteries
Batteries
I-2533
Cabinet
CAN Bus (500 Kbps)
Charge Batteries
Tram
Regenerative braking
Control Center

Energy Storage System


I-8120W
I-8120W
CAN Bus
I-8120W
I-8120W
I-8120W
XP-8341
CAN Bus
VP-25W1
CAN Bus
VP-25W1
I-8057W
Batteries
Batteries
Power line
DO
Control
Ethernet
Breaker
Power line
Power line
Power line
Network
Transformer
PC

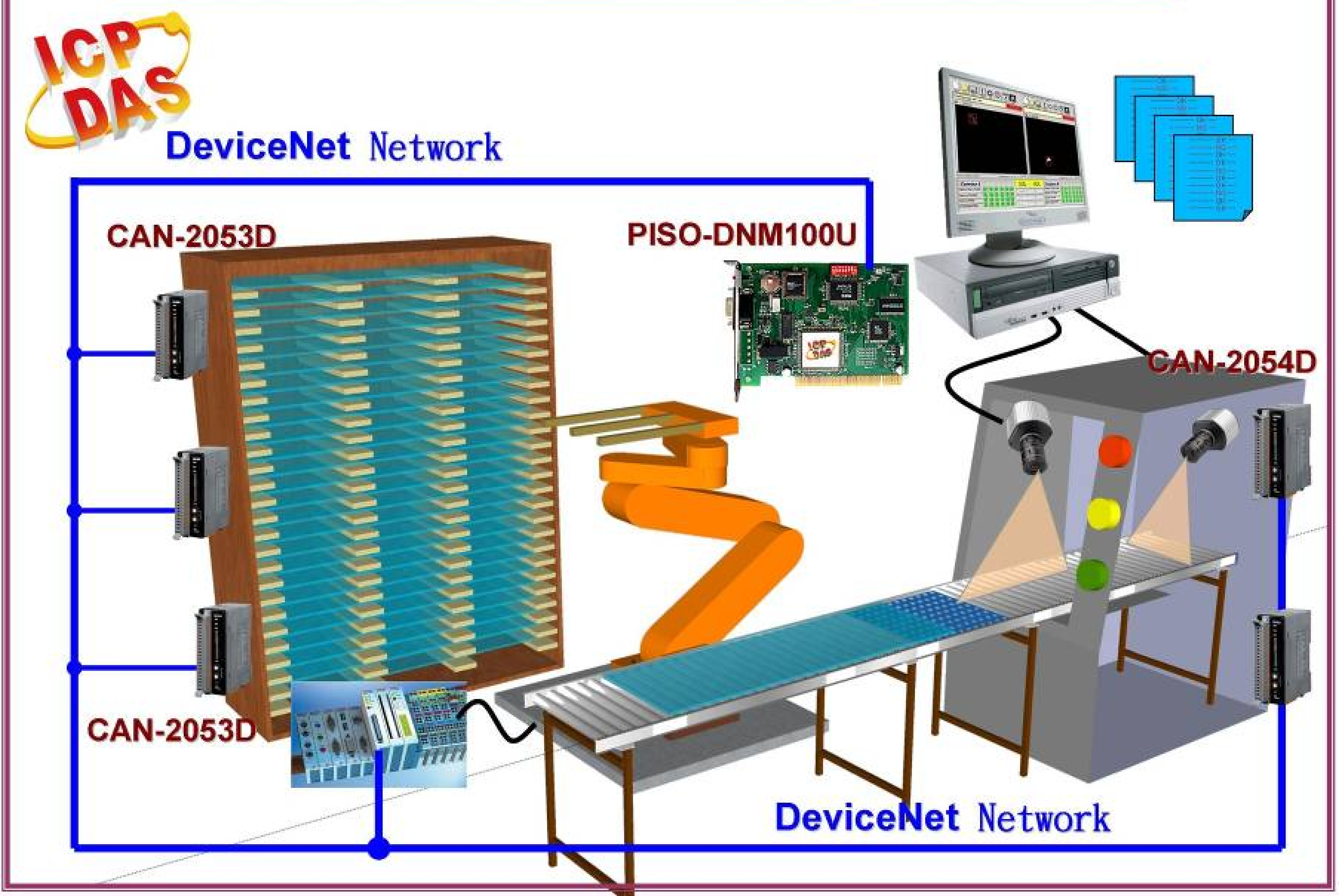
Battery Exchange System



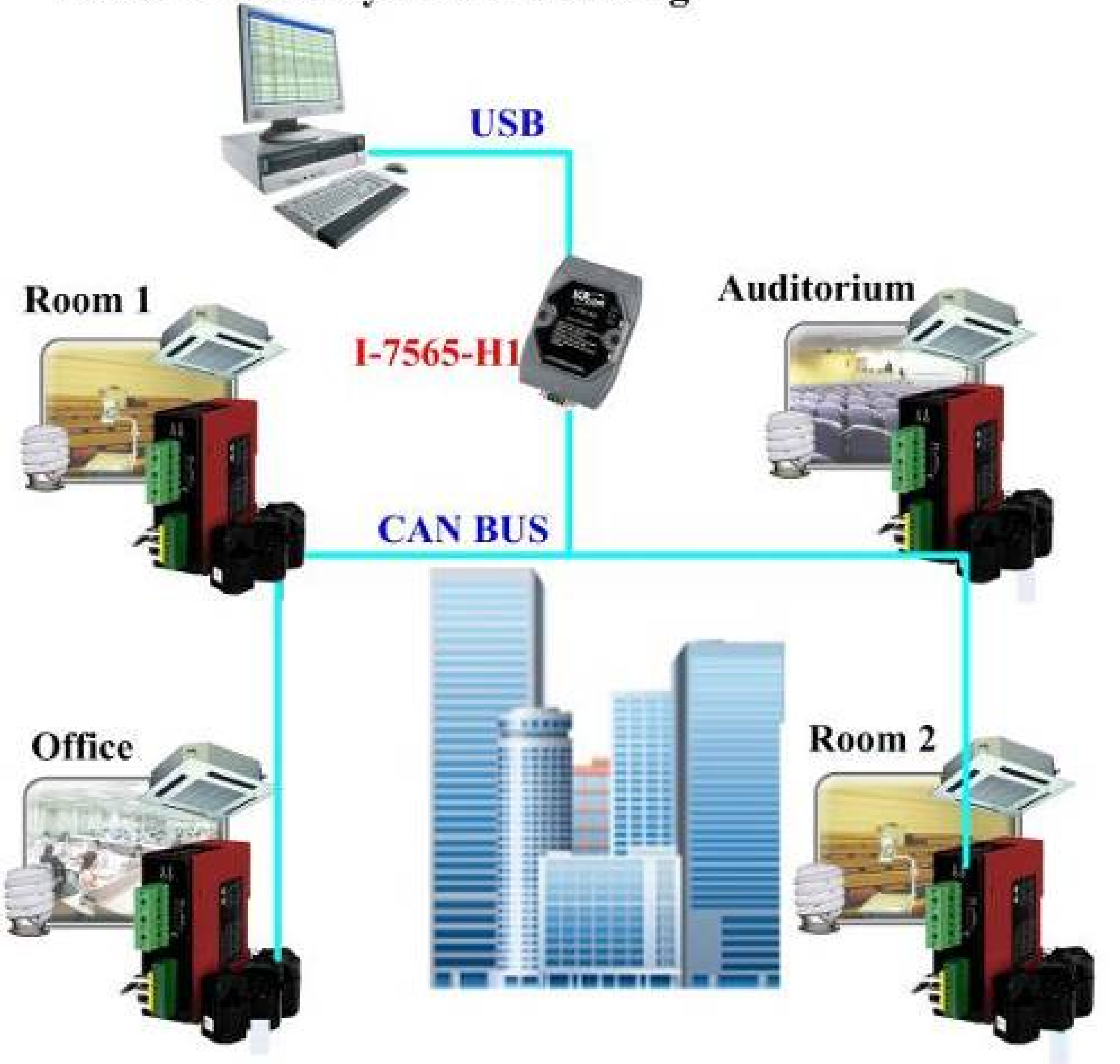
CAN bus

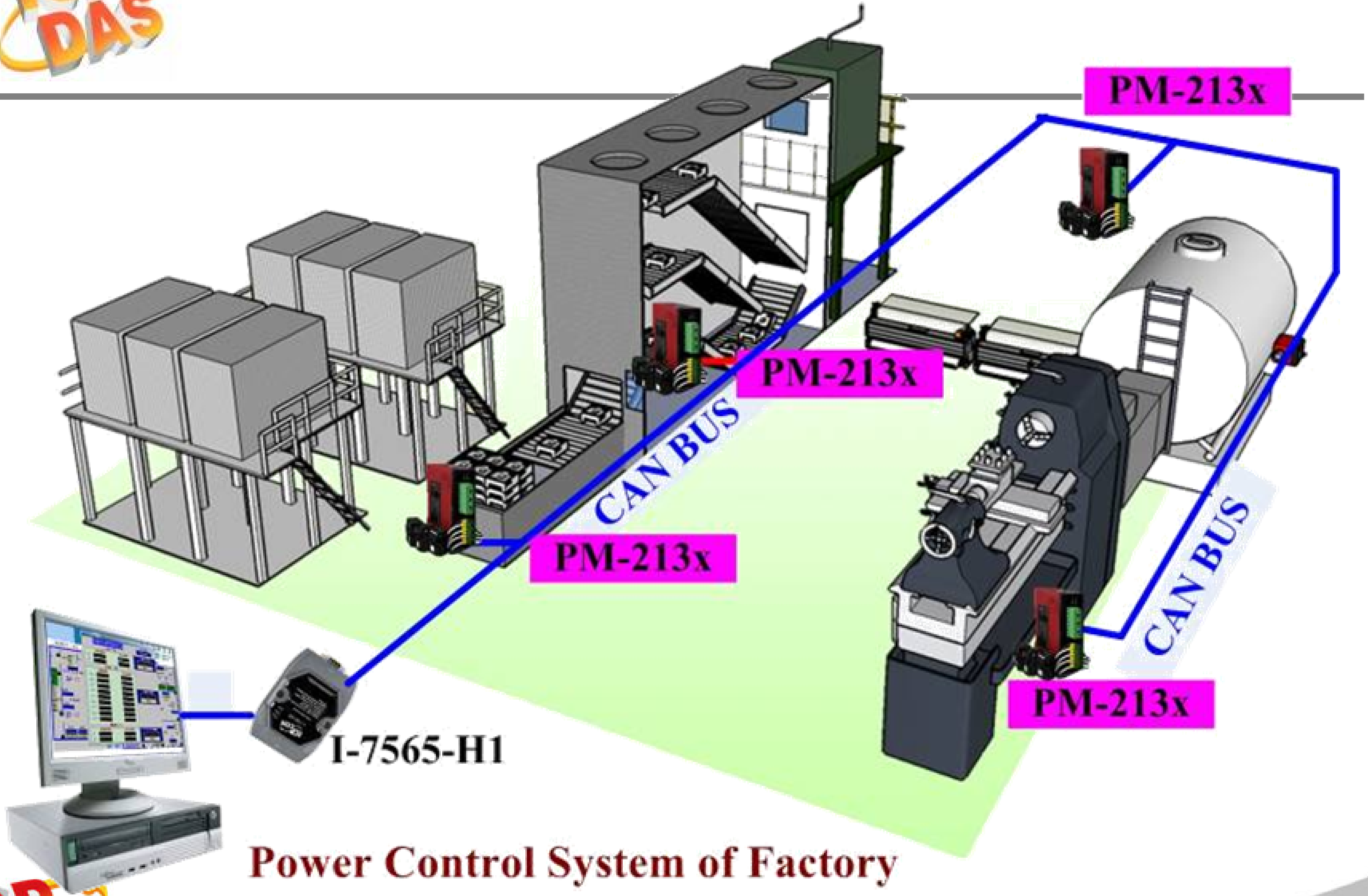
PISO-CAN200U

LCD Glass Inspection System


ICP DAS
DeviceNet Network
CAN-2053D
PISO-DNM100U
CAN-2054D
CAN-2053D
DeviceNet Network

Power Control System of Building

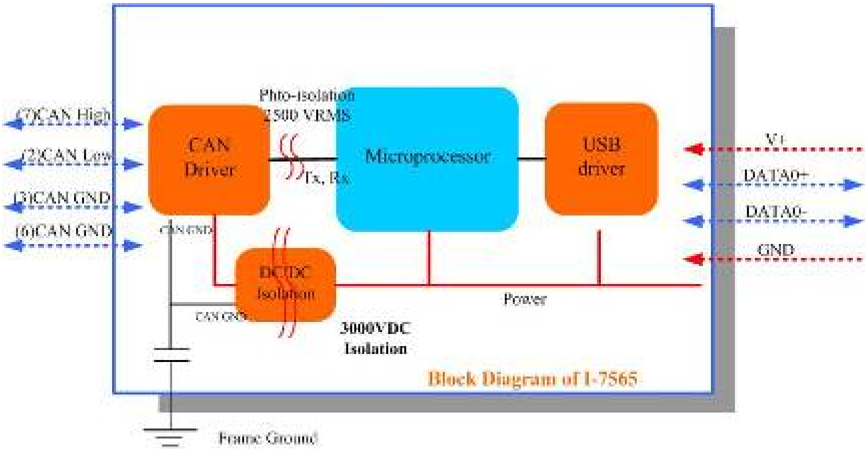

USB
Room 1
I-7565-H1
Auditorium
CAN BUS
Office
Room 2

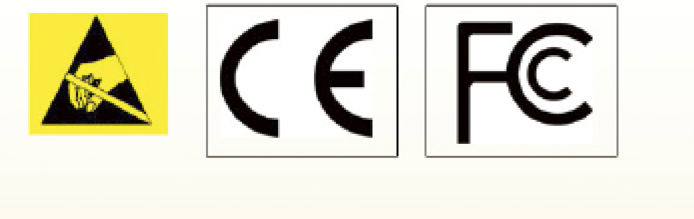

PM-213x
PM-213x
PM-213x
PM-213x
CAN BUS
CAN BUS
I-7565-H1

Power Control System of Factory

High protection and Certification

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


(7)CAN High
(2)CAN Low
(3)CAN GND
(6)CAN GND
CAN Driver
Phto-isolation
2500 VRMS
Tx, Rx
Microprocessor
USB driver
V+
DATA0+
DATA0-
GND
CAN GND
DC/DC Isolation
CAN GND
Power
3000VDC Isolation
Block Diagram of I-7565
Frame Ground



ICPcon
-25°C ~ 75°C

The Advantage in ICP DAS

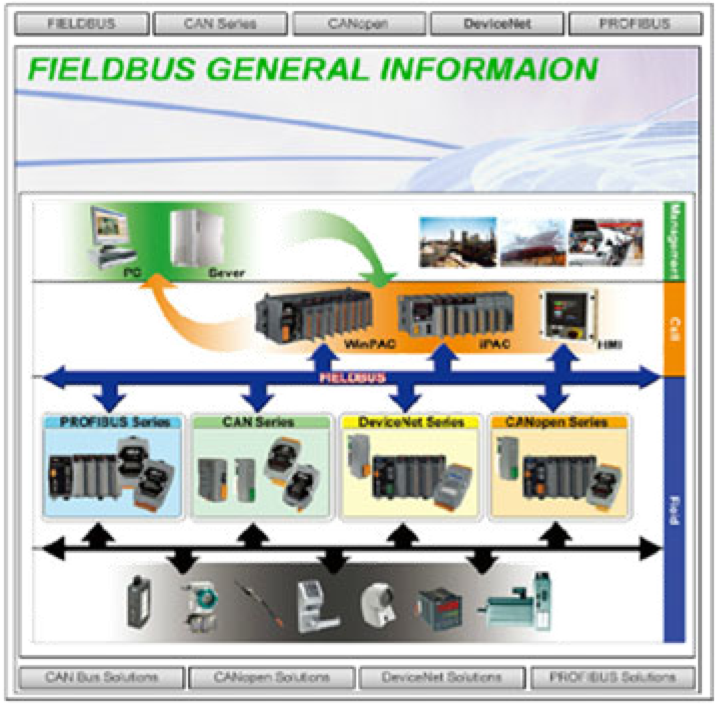
- All kinds of CAN total Solutions
- DeviceNet / CANopen protocol series
- CAN ODM products
- Good technology support Team

WIN-WIN

Best Service

More Information in the CAN bus Website

http://www.icpdas.com/products/Remote_IO/can_bus/can_intro.htm


FIELDBUS
CAN Series
CANopen
DeviceNet
PROFIBUS
FIELDBUS GENERAL INFORMAION
PC
Sever
WinPAC
iPAC
HMI
Management
Cell
FIELDBUS
PROFIBUS Series
CAN Series
DeviceNet Series
CANopen Series
Field
CAN Bus Solutions
CANopen Solutions
DeviceNet Solutions
PROFIBUS Solutions

ICP DAS
Industrial CAN Bus Products Catalog
2011 Product Catalog
CAN
CANopen
DeviceNet
J1939
Industrial
Total Solutions
Fieldbus
CAN bus
CANopen
DeviceNet
J1939
PROFIBUS
HART
EtherNet/IP
BACnet
ICP DAS Co., Ltd.

Thank You