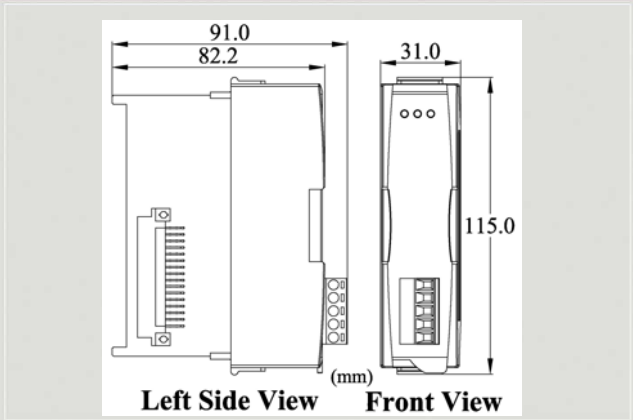
CANopen Series Products

1 Port Intelligent CANopen Master Interface Module

I-8123W



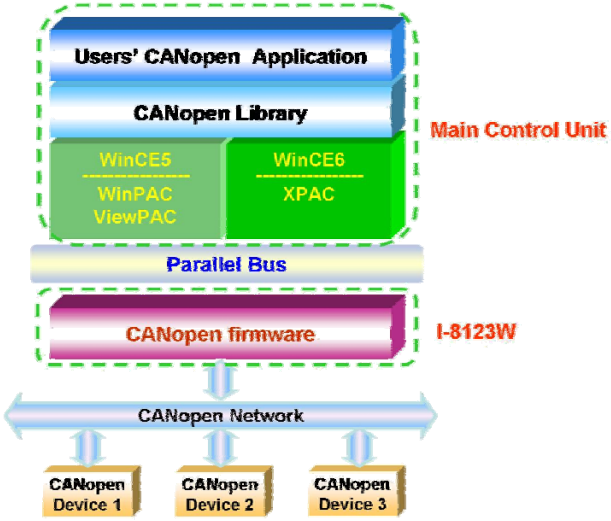
Dimensions

The I-8123W follows CiA CANopen specification DS-301 V4.02. It is a high price/performance CANopen master. With the ViewPAC or WinPAC series MCU (main control unit), it can be generally applied in the industrial automation, building automation, vehicle, and embedded control network. Besides, owing to the feature of building the CANopen protocol firmware inside, users can easily access the slave devices via I-8123W without studying or dealing the complex CANopen protocol. It is helpful to reduce the development cycle time and let users set up their CANopen application more quickly and easily.

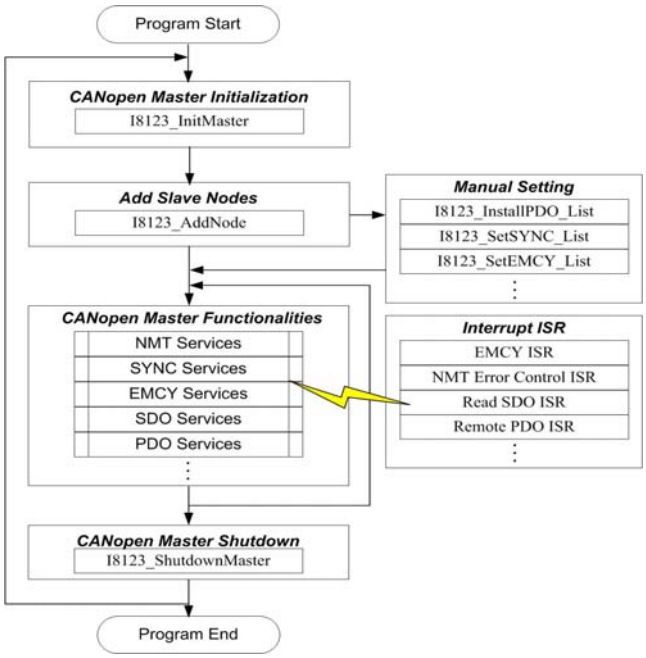
Features

- NMT Master.
- CANopen version: DS-301 V4.02
- Support Node Guarding and Heartbeat Consumer error control. protocol
- Provide EMCY and NMT Error Control interrupt service function
- Provide " master listen mode"
- Provide Dynamic PDO, acyclic and cyclic transmission
- Support ViewPAC and WinPAC series MCU

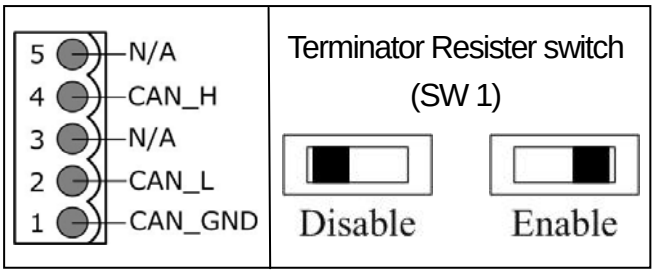
I-8123W Architecture



Design Flowchart



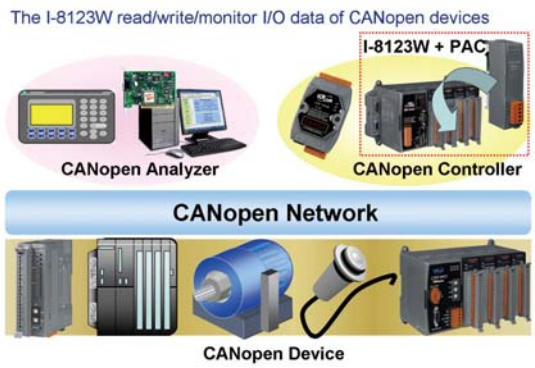
CAN Pin & Baud Rate Rotary

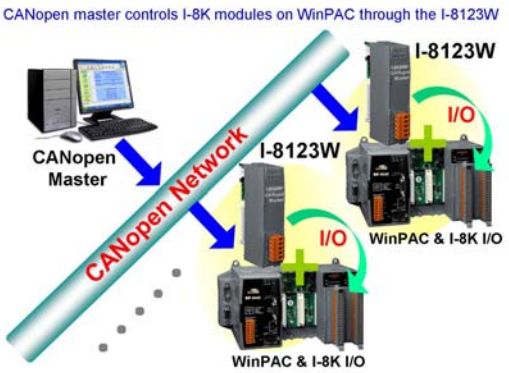


Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB
NVRAM	31 bytes (battery backup, data valid for up to 10 years)
RTC (Real Time Clock)	Yes
Watchdog	Yes
CAN Interface	
Controller	NXP SJA1000T with 16 MHz clock
Transceiver	NXP 82C250
Channel number	1
Connector	5-pin screwed terminal block (CAN_GND, CAN_L, 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 (m)	Depend on baud rate (for example, max. 1000 m at 50 kbps)
Isolation	3000 V_{DC} for DC-to-DC, 2500 Vrms for photo-couple
Terminator Resistor	Switch for 120 Ω terminator resistor
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Protocol	CANopen DS-301 ver4.02, DS-401 ver2.1
LED	
Round LED	PWR LED, RUN LED, ERR LED
Software	
Driver	Windows CE 5.0
Library	eVC++4.0, VB.Net 2005, C#.Net 2005
Power	
Power Consumption	2 W
Mechanism	
Dimensions	31mm x 91mm x 115mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 ℃
Storage Temp.	-30 ~ 80 ℃
Humidity	10 ~ 90% RH, non-condensing

Applications





Ordering Information

I-8123W	One port intelligent CANopen master interface module.