



## I-8123W

1 Port High Performance CANopen Master Module

### Features

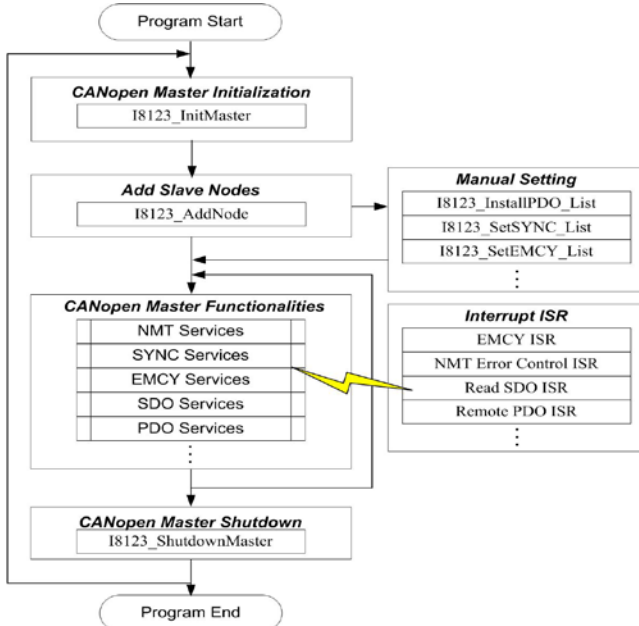
- NMT: Master
- CANopen Version: DS-301 v4.01
- Support Node Guarding and Heartbeat Consumer error control. protocol
- Provide EMCY and NMT Error Control interrupt service function
- Provide "master listen mode"
- Provide Dynamic PDO, acyclic and cyclic transmission
- Support ViewPAC-2xWx, WinPAC-8000, XPAC-8000 and XPAC-8000-CE6 series MCU



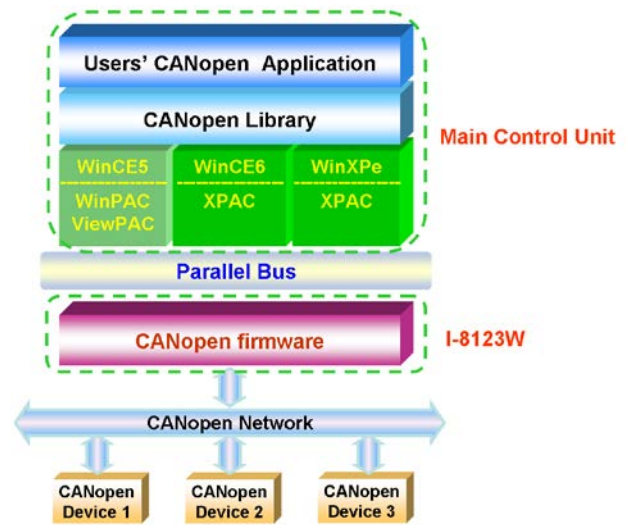
### Introduction

The I-8123W follows CiA CANopen specification DS-301 V4.02. It is a high price/performance CANopen master. With the ViewPAC-2xWx, WinPAC-8000, XPAC-8000 or XPAC-8000-CE6 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.

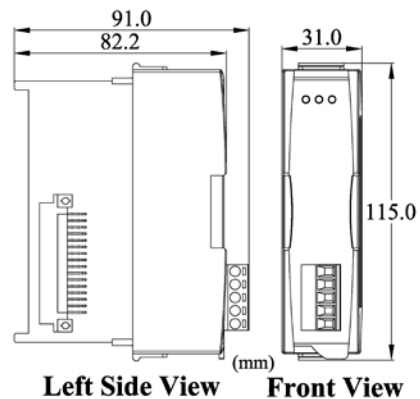
### Design Flowchart



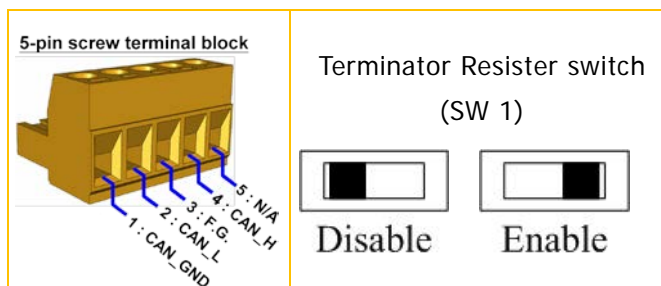
### I-8123W Architecture



### Dimensions



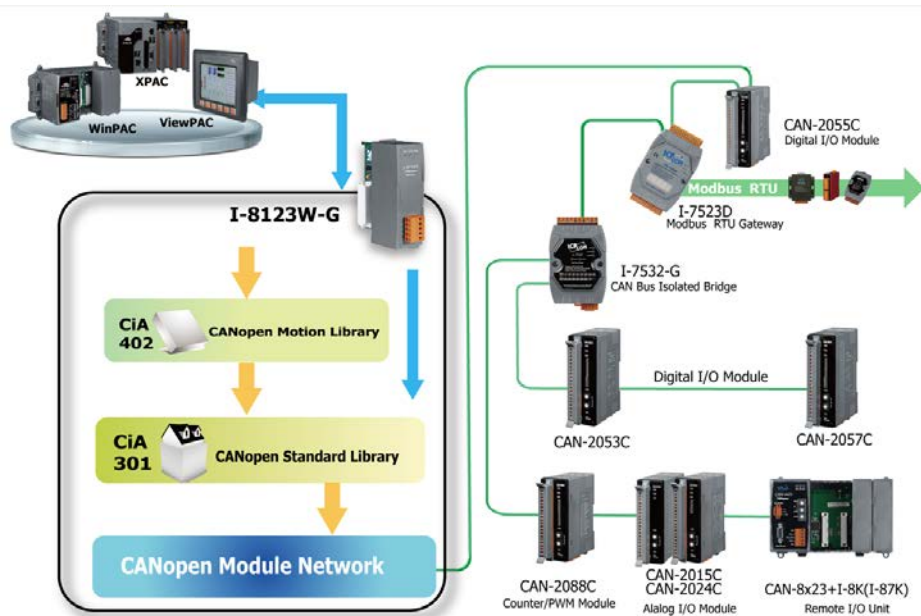
### CAN Pin & Terminator Resistor



## Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB
Module Watchdog	Watchdog IC (0.8 seconds)
CAN Interface	
Controller	NXP SJA1000T with 16 MHz clock
Transceiver	NXP 82C250
Channel number	1
Connector	5-pin screw terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, N/A)
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 <sub>DC</sub> for DC-to-DC, 2500 V <sub>rms</sub> for photo-couple
Terminal Resistor	Switch for 120 Ω terminal resistor
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Protocol	CANopen DS-301 ver4.02
Bus Interface	
Type	Parallel I/O module
LED	
Round LED	PWR LED, RUN LED, ERR LED
Software	
Supported Platform	ViewPAC-2xWx, WinPAC-8000, XPAC-8000, XPAC-8000-CE6
SDK	eVC++4.0, VC++ 6.0, VC++ 2005, 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 °C
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

## Application



## Ordering Information

<b>I-8123W</b>	One port high performance intelligent CANopen master interface module.
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