

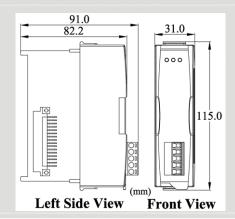
CANopen Series Products

Standalone CANopen Master Module





I-87123

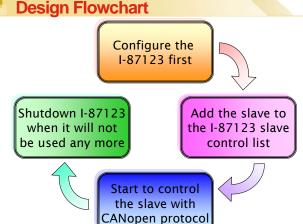


Dimensions

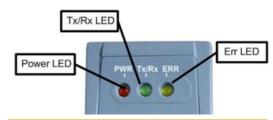
The I-87123 was developed as a standardized embedded network with highly flexible configuration capabilities. It provides standardized communication objects for real-time data (Process Data Objects, PDO), configuration data (Service Data Objects, SDO), network management data (NMT message, and Error Control), and special functions (Time Stamp, Sync message, and Emergency message). Nowadays, CANopen is used in many various application fields, such as medical equipment, off-road vehicles, maritime electronics, public transportation, building automation and etc.

Features

- NMT: Master
- CANopen Version: DS-301 v4.01
- Error Control: Support Guarding protocol
- Support EMCY receiving
- Provide dynamic PDO functions
- Support SYNC protocol
- Transmission type of PDO is supported
- Support SDO download/upload segment protocol
- 256 records CANopen message reception buffer
- CAN, ERR, and Tx/Rx LED indicator
- Support I-8000 and WinCon-8000 series MCU



LED Indicators

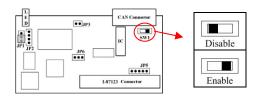


LED.	Description
PWR	Indicate power status
Tx/Rx	Indicate CAN messages transmission
ERR	Indicate the error status

Pin Assignments

N/A	Pin 1	Pin No.	Description
CAN_H	•) Pin 2	1	No use
CAN_SHLD	Pin 3	2	CAN high bus line
CAN L	Pin 4	3	CAN Shield
N/A	Pin 5	4	CAN low bus line
N/A	Pin 3	5	No use

Terminal Resister Switch





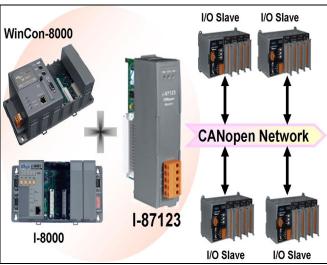


Hardware Specifications

Hardware				
CPU	80186, 80 MHz or compatible			
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB			
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_SHLD, CAN_H, N/A)			
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)			
Transmission Distance (m)	Depend on baud rate (for example, max. 1000 m at 50 kbps)			
Isolation	1000 V _{DC} for DC-to-DC, 2500 Vrms for photo-couple			
Terminator Resistor	Jumper 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			
Bus Interface				
Туре	Serial I/O module			
LED				
Round LED	PWR LED, RUN LED, ERR LED			
Software				
Driver	WinPAC, LinPAC, iPAC			
Library	TC/BC.			
Power				
Power supply	Unregulated $+10 \sim +30 \text{ V}_{DC}$			
Mechanism				
Dimensions	31mm x 115mm x 91mm (W x L x H)			
Environment				
Operating Temp.	-25 ~ 75 ℃			
Storage Temp.	-30 ~ 80 °C			
Humidity	5 ~ 95% RH, non-condensing			

Applications





Ordering Information

I-87123 Module with one CANopen CAN port, I-8000/Wincon CANopen master library, 80186 80MHz CPU, 512K flash, 512K SRAM, 120Ω terminal resister selected by jumper.