

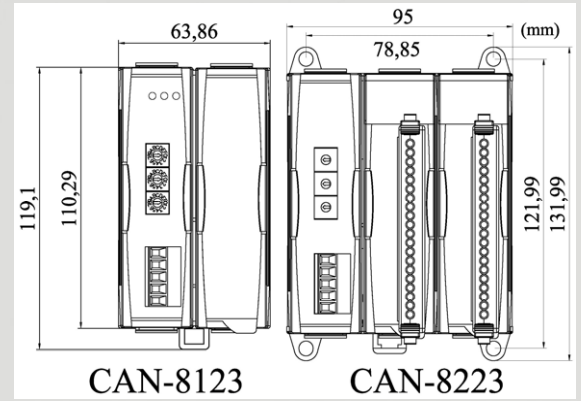


# CANopen Series Products

## CANopen Remote I/O Unit with 1/2 I/O Expansions



CAN-8123 / CAN-8223



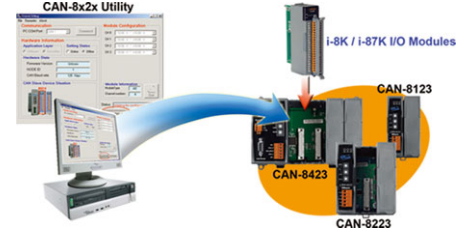
Dimensions

The CAN-8423 main control unit is specially designed for the slave device of CANopen protocol. It follows the CANopen Spec DS-301 V4.01 and DSP-401 V2.1, and supplies many features for users, such as dynamic PDO, EMCY object, error output value, SYNC cyclic and acyclic ... etc. The CAN-8423 supports up to 4 slots for I/O expansion and suits with a lot of ICP DAS DI / AI / DO / AO modules. User can choose DI/DO/AI/AO modules of I-87K series or I-8000 series to fit the customized practice applications. In addition, we also provide CAN-8x23 Utility to allow users to create the EDS file dynamically.

### Features

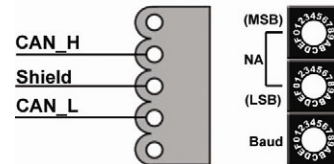
- NMT: Slave
- Error Control: Heart beat to Node Guarding selectable
- No. of SDOs: 1 Server, 0 Client
- No. of PDOs: 16Rx, 16Tx
- PDO Modes: Event Triggered, Remotely requested, Cyclic and Acyclic SYNC
- Emergency Message available
- CANopen Version: DS-301 v4.01
- Device Profile: DSP-401 v2.0
- Produce EDS file Dynamically
- CAN, ERR, and Tx/Rx LED indicator
- Support Hot Swap and Auto-Configuration for high profile I-87K I/O modules

### Utility Features



CAN-8423 main unit can be plugged in the I-8K/I-87K IO modules to create a customized CANopen slave device and application. The CAN-8x23 Utility tool can configure the IO connection path, assembly and application objects information and create the EDS file of the device.

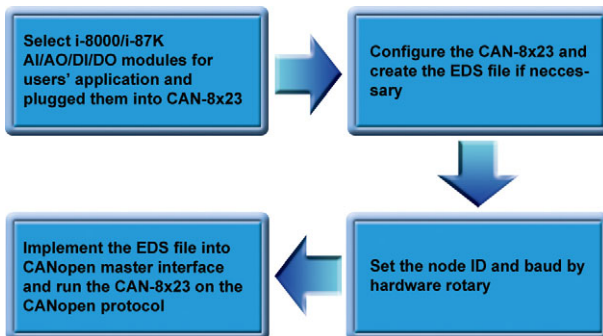
### Pin Assignments



ID: Node ID    Baud: Device Baud Rate

Rotary Switch Value	Baud rate (K BPS)
0	10
1	20
2	50
3	125
4	250
5	500
6	800
7	1000

### Design Flowchart



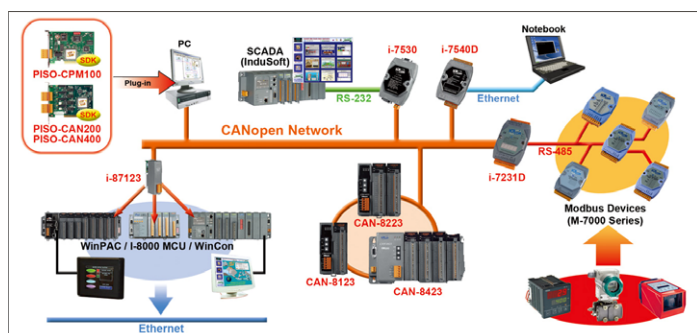
## Hardware Specifications

Item	CAN-8123	CAN-8223
CPU	80186, 80MHz	
SRAM	512K bytes	
Flash Memory	512K bytes	
EEPROM	2048 bytes ( can be up to 128K bytes or change to 2K/8K FRAM )	
NVRAM	32 bytes	
Real Time Clock	16 bit; Year-2000 compliance; seconds, minutes, hours, date of the month; month, year, valid up from 1980 to 2079	
Watch Dog Timer	CPU Built-in	
COM 1	RS232 (Configuration port)	
CAN Port	5-pin screw terminal connector	
CAN Controller	Phillips SJA1000T CAN Controller	
CAN Transceiver	Phillips 82C250 CAN Transceiver	
CAN Protocol	CAN 2.0A/2.0B	
Isolated	2500Vrms on CAN side	
Terminal Resister	120Ω terminal resister selected by jumper	
Transfer Rate	10K, 20K, 50K, 125K, 250K, 500K, 800K, 1M bps	
I/O Expansion Slot	1 slot	2 slots
Power Supply	20W unregulated +10Vdc to +30Vdc	
Power Consumption	1.7 W	2W
Operating Temp.	-25°C ~75°C	
Storage Temp.	-35°C ~85°C	
Humidity	5~95%	
Dimensions	64mm x 91mm x 119mm(W x D x H)	95mm x 91mm x 132mm(W x D x H)

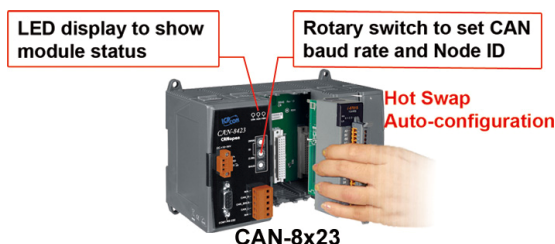
## LED Indicators

LED	Description
PWR	Indicate the status of power supply
RUN	Indicates the status of the physical layer
ERR	Indicates the condition of the CANopen network state mechanism

## Application



## Hot Swap & Auto-configuration



## Ordering Information

CAN-8123	CANopen Embedded Device with 1 I/O Expansion
CAN-8223	CANopen Embedded Device with 2 I/O Expansions