



**I-87123**

## I-87123 1 Port CANopen Master Slot Module

### Introduction

CANopen, a kind of communication protocols, is based on the intelligent field bus(CAN bus). It 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.

I-87123 main control unit is specially designed for the master device of CANopen protocol. It supplies many features for users, such as dynamic PDO, EMCY object, error output value, SYNC object, ...and etc.

### Applications

- Industrial Machinery
- Laboratory Equipment & Research
- Restaurant Appliances
- Maritime
- Medical
- Specialty Vehicles...etc.

### Features

#### Common Features:

- One CAN port expansion for i-8000 series MCU (main control unit) and WinCon-8000.
- Baud :10Kbps, 20Kbps, 50Kbps, 125Kbps, 250Kbps, 500Kbps, 800Kbps, 1Mbps.
- Support upload and download SDO Segment
- Support Node Guarding protocol
- Support all transmission types and SYNC message
- Provide C/C++ function libraries to control CANopen messages.
- Demos are provided
- 256 records CANopen message receive buffer size
- 2500 Vrms isolation
- 3 indication LEDs (Pow, Rx/Tx and Err LEDs)

### Hardware Specifications

<b>Microcontroller</b>	80186, 80MHz
<b>CAN Controller</b>	Philip SJA1000 CAN controller
<b>CAN Transceiver</b>	Philip 82C250 CAN transceiver
<b>SRAM</b>	512K bytes
<b>Flash Memory</b>	512K bytes
<b>EERROM</b>	2K bytes
<b>Transmission Speed</b>	1 MBPS Max.
<b>External Clock</b>	16MHz

<b>Terminal Resister</b>	120Ω terminal resister selected by jumper♣
<b>CAN bus interface</b>	ISO/IS 11898-2, 5-pin screw terminal with on-board optical isolators protection.
<b>Power Supply</b>	2W, Unregulated +10VDC to +30VDC
<b>Operating Temp</b>	-25C to 75C
<b>Storage Temp</b>	-30C to 85C
<b>Humidity</b>	5 ~ 95%
<b>Dimensions</b>	123 mm x 64.5 mm x 19.6 mm

## Ordering information

<b>I-87123</b>	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.
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