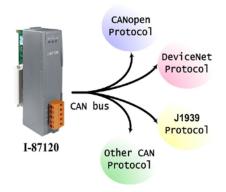


Introduction

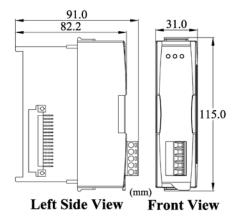
The I-87120 is a kind of CAN communication module, and need to be plugged into a MCU (main control unit), such as I-8000, iP-8000, ViewPAC-2000, WinPAC-8000, LinPAC-8000 and XPAC-8000-CE6 series. I-87120 gives a way to connect these ICPDAS host unit with CAN network. We provide the libraries and several demos of these host devices with GCC, eVC++, VC++2005, C#.Net and VB.Net. And we also provide the library and demos of the firmware for designed the user-defined I-87120. Owing to the features of MCUs, these hose units can be arranged to be a CAN converter, CAN slave device and CAN master device in a CAN network.

Firmware Features



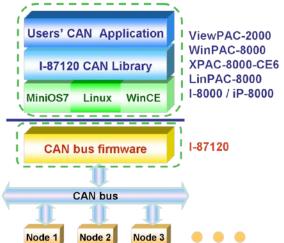
- Initialize function of user-defined
- Interrupt function of user-defined
- Loop function of user-defined
- ASCII command function of user-defined
- Binary code command function of user-defined
- Standard firmware inside

Dimensions (Units: mm)



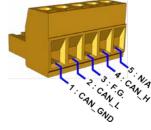
Host Library

- Provide function libraries to send and receive CAN message easily
- Provide C++ firmware demo to build user-defined firmware
- Provide GCC, TC/BC, eVC++, VC++2005, C#.Net, VB.Net demo for different series MCUs
- Support I-8000/ iP-8000/ ViewPAC-2000/ WinPAC-8000/ LinPAC-8000/ XPAC-8000-CE6



🖿 Pin Assignments

5-pin screw terminal block

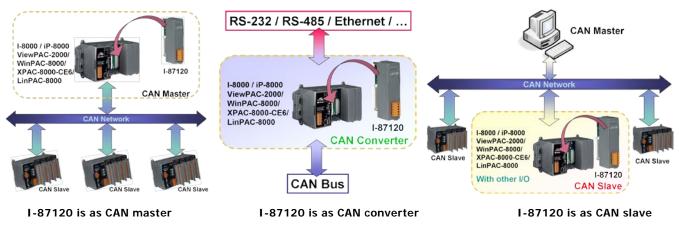


Pin No.	Description
1	CAN Ground
2	CAN low bus line
3	CAN Shield
4	CAN high bus line
5	Non-available

Hardware Specifications

Hardware	Hardware		
CPU	80186, 80 MHz or compatible		
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB		
RTC (Real Time Clock)	Yes		
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 (allow user-defined baud rate)		
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		
Terminal Resistor	Jumper for 120 Ω terminal resistor		
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B		
LED			
Round LED	Tx/Rx LED, ERR LED		
Software			
Driver	I-8000/iP-8000/ViewPAC-2000/WinPAC-8000/LinPAC-8000/XPAC-8000-CE6		
Library	TC/BC, GCC, VB.Net 2003, C#.Net 2003, VB.Net 2005, C#.Net 2005, eVC++ 4.0		
Power			
Power supply	Unregulated +10 \sim +30 V _{DC}		
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		

Application



Ordering Information

I-87120 CR	1-port Programmable CAN Module (Serial Bus Type) (RoHS)
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