



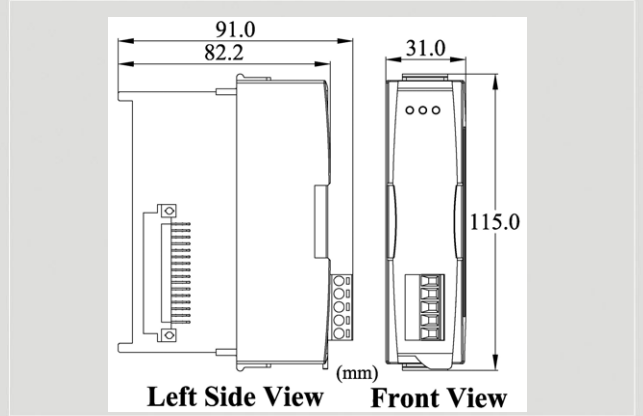
CAN Series Products



Programmable CAN Interface Module



I-8120



Dimensions

The I-8120 has one CAN communication port with 5-pin screw terminal connector, and is useful for a wide range of CAN applications. Besides, I-8120 uses the new Phillips SJA1000T and transceiver 82C250, which provide both CAN 2.0A and 2.0B specific, re-transmission function, bus arbitration and error detection. Combining the benefits of PACs of ICP DAS without increasing the CPU loading heavily, it could be a powerful multi CAN port programmable device server by driving the program in the 186CPU of I-8120. It can also communicate with other kinds of communication interface, such as RS-232/RS-485/Ethernet of PAC. Therefore, users can design the various CAN applications in PACs.

Hardware Features

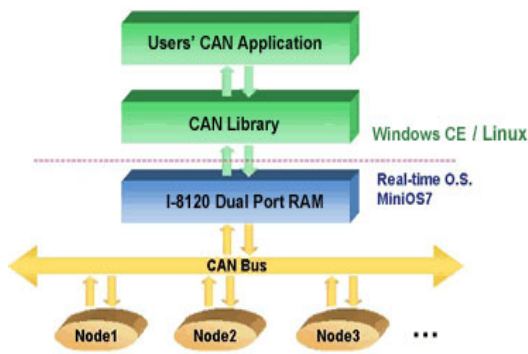
- Microprocessor inside with 80186, 80MHz
- 82C250 CAN transceiver
- SJA1000 CAN controller
- Support both CAN 2.0A and CAN 2.0B
- Build-in jumper to select 120 ohm terminal resistor
- Max transmission speed up to 1M bps for CAN
- Max transmission distance over 1000m
- Support WinCon-8000/ LinCon-8000

- Easy to transmit and receive CAN message
- High performance to process CAN message

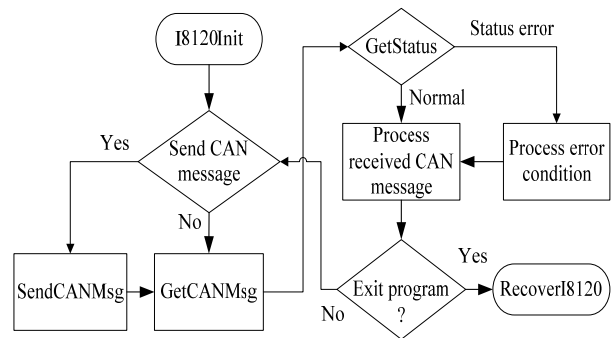
Host Library

- Support WinCon/LinCon.
- Provide C/C++ function libraries to send and receive CAN message
- Provide EVC++ demo for WinCon.
- Provide GCC demo for LinCon.

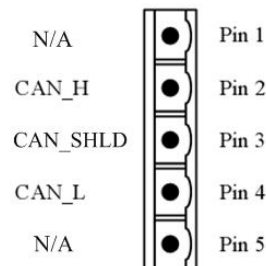
Software Features



- Support hardware timestamp
- Dual port RAM communication mechanism
- 2048 CAN message reception buffer size
- 256 CAN message transmission buffer size
- Support user-defined baud rate



Wire Assignments

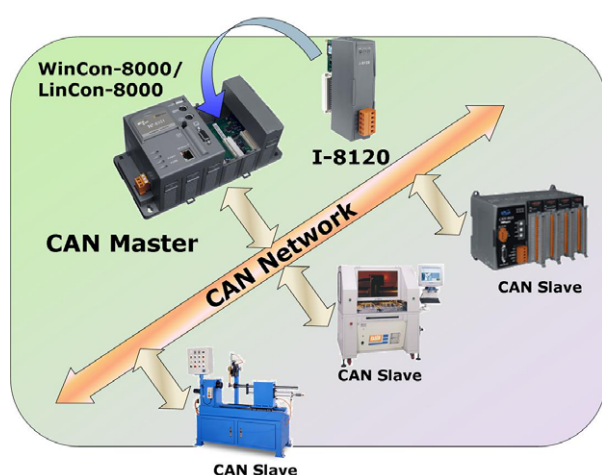


Pin No.	Description
1	No use
2	CAN high bus line
3	CAN Shield
4	CAN low bus line
5	No use

Hardware Specifications

Item	I-8120
CPU	Microprocessor inside with 80186 80MHz
CAN Port Channels	1
CAN Transceiver	Phillips 82C250
CAN Controller	Phillips SJA1000 with 16MHz
CAN Connector	ISO/IS 11898-2, 5-pin screw terminal connector
OS	Mini-OS 7
Max. Baud Rate	1Mbps
Isolation	2500 Vrms on the CAN side
Terminator Resistor	Selectable 120Ω terminator resistor by jumper
Support Protocol	CAN 2.0A/2.0B
DPRAM	8K bytes
Flash/SRAM/EEPROM	512K/512K/2K bytes
Software	
Library	Provide WinCon-8000/LinCon-8000 libraries
Baud Rate Configure	5K, 10K, 20K, 25K, 50K, 100K, 125K, 200K, 250K, 500K, 800K and 1Mbps
User-defined Baud	Support user-defined baud rate
Transmit Buffer	256 records CAN message transmit buffer size
Receive Buffer	2048 records CAN message reception buffer size
General	
Power Requirement	Unregulated +10VDC to +30VDC
Power Consumption	2W
LEDs	Rx/Tx LED: Rx/Tx data, Err LED: CAN error occur, PWR LED: Power on
Environment	
Operating Temp.	-25°C to 75°C
Storage Temp.	-30°C to 85°C
Humidity	5~95% non-condensing
Dimensions	31mm x 91mm x 115mm (W x D x H)

Applications



Ordering Information

I-8120	Module with one programmable CAN port, Wincon/Lincon CAN port library, 80186 80MHz CPU, 8K DPRAM, 512K flash, 512K SRAM, 120Ω terminal resistor selected by jumper.
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