

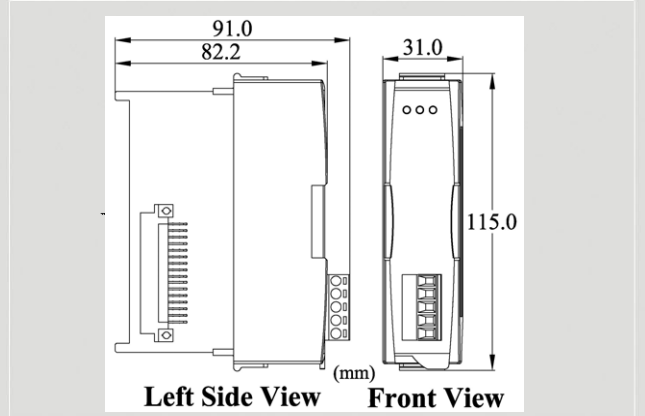


DeviceNet Series Products

1 Port Programmable DeviceNet Master Interface



I-87124



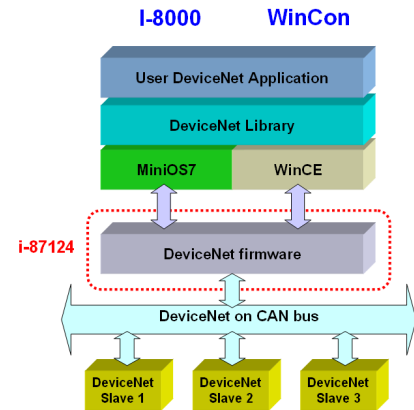
Dimensions

The I-87124 can represent an economic solution of DeviceNet application and be a DeviceNet master device on the DeviceNet network. I-87124 supports Group 2 and UCMM functions to communication with slave devices. It can be installed in I-8000 or WinCon series PAC. It is popularly applied in the industrial automation, building automation, vehicle, marine, and embedded control network. There is a complete DeviceNet protocol firmware in the I-87124. The users can easily access the slave device via I-87124 in the I-8000 and WinCon PAC and need not to deal with the complex DeviceNet protocol. The users can use as easy as “Read/Write” functions to access slave I/O data.

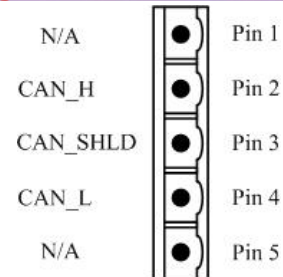
Features

- DeviceNet Version: Volume I & II, Release 2.0
- Programmable Master MAC ID and Baud Rate.
- Baud Rate: 125K, 250K, 500K
- Support Group 2 and UCMM connection
- I/O Operating Modes: Poll, Bit-Strobe, Change of State / Cyclic
- I/O Length: 512 Bytes max (Input/Output) per slave
- Slave Node : 63 nodes max
- Support Auto-Search slave device function.
- Support on-line adding and removing devices
- Support Auto-detect Group 2 and UCMM device
- Auto-Reconnect when the connection is broken
- Status LED: RUN, MS, NS

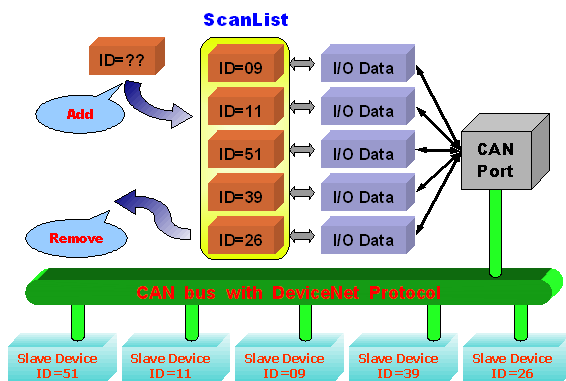
I-87124 Architecture



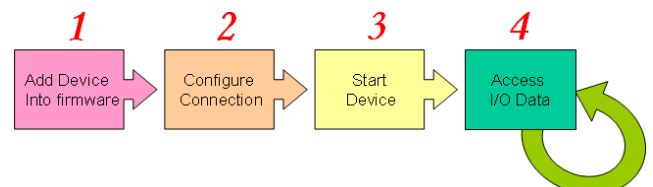
Pin Assignments



Master's ScanList Concept



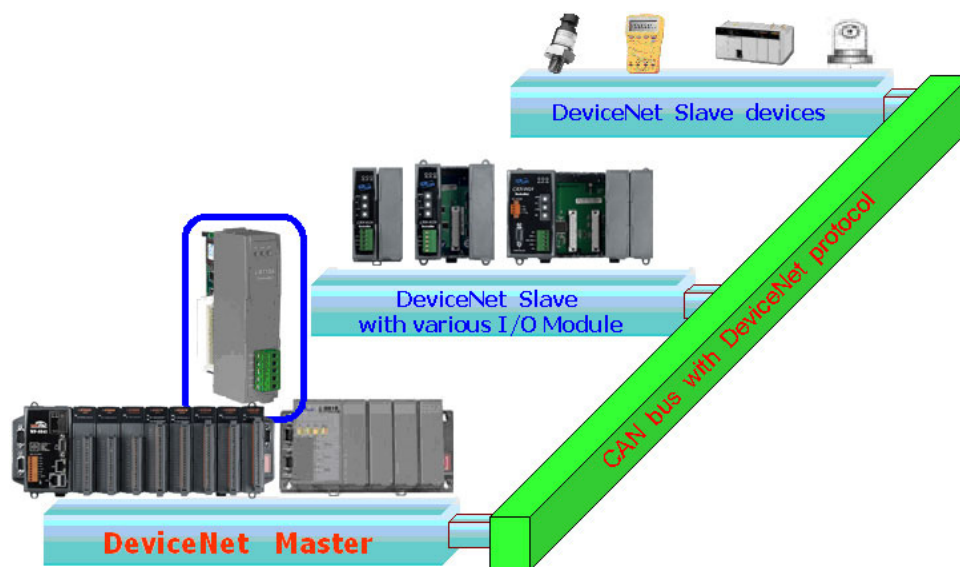
Establish Connection Flowchart



Hardware Specifications

Item	I-87124
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
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
LED	3 Indicator LED (RUN,NS,MS)
Power Supply	Unregulated +10VDC to +30VDC
Power Consumption	2W
Operating Temp.	-25°C ~75°C
Storage Temp.	-35°C ~85°C
Humidity	5~95%
Dimensions	31mm x 91mm x 115mm (W x D x H)

Application



Ordering Information

I-87124	1 Port Programmable DeviceNet Master Interface
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