

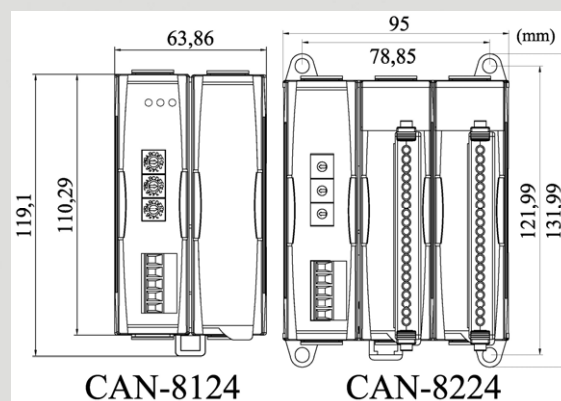


# DeviceNet Series Products

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



**CAN-8124 / CAN-8224**



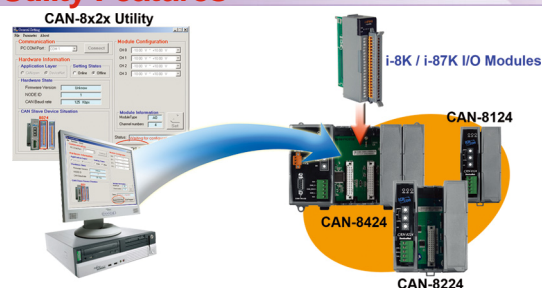
**Dimensions**

The CAN-8124/CAN-8224 main unit based on the modular design offers many good features to the users and provides more flexibility in data acquisition and control system. CAN-8124 and CAN-8224 are the DeviceNet Group 2 only Server devices. They are applied as the slaves in DeviceNet network. In addition, ICP DAS also presents a Utility tool to allow users to configure and create the EDS file for the specific IO modules plugged in. CAN-8124/CAN-8224 are specifically fit for the distribution system. With the hot-swap function, it is convenient for maintaining system.

### Features

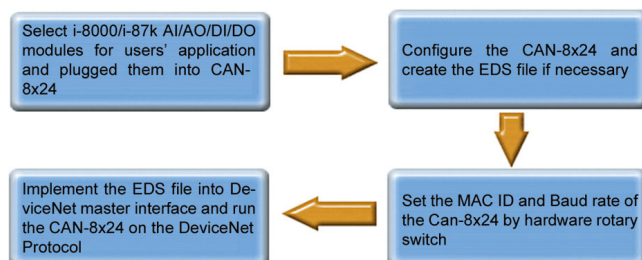
- Number of Nodes: 64 max.
- Baud Rate: 125K, 250K, 500K bps
- Support Message Groups: Group 2 only Server
- I/O Operating Modes: Poll, Bit-Strobe, Change of State / Cyclic
- Device Heartbeat & Shutdown Message
- Produce EDS file Dynamically
- No. of Fragment I/O: 128 Bytes max. (Input / Output)
- MAC ID Setting by Rotary Switch
- Baud Rate Setting by Rotary Switch
- Status LED: NET, MOD, PWR
- Support Hot Swap and Auto-Configuration for high profile I-87K I/O Modules

### Utility Features

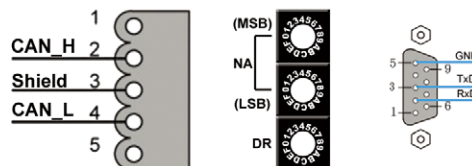


CAN-8424 main unit can be plugged in the DCON (I-8K/I-87K) IO modules to create a customized DeviceNet slave device and application. In order to allow user to easy apply the device on the network, ICP DAS also provides the Utility tool to configure the IO connection path, assembly and application objects information and create the EDS file of the device.

### Design Flowchart



### Pin Assignments



**NA: Node Address**

**DR: Device Rate**

Rotary Switch Value(DR)	Baud rate (K BPS)
0	125
1	250
2	500



## Hardware Specifications

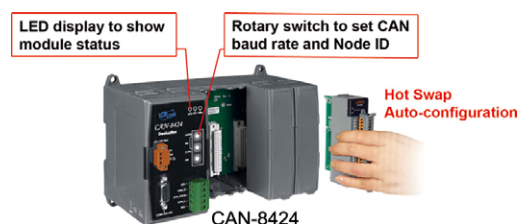
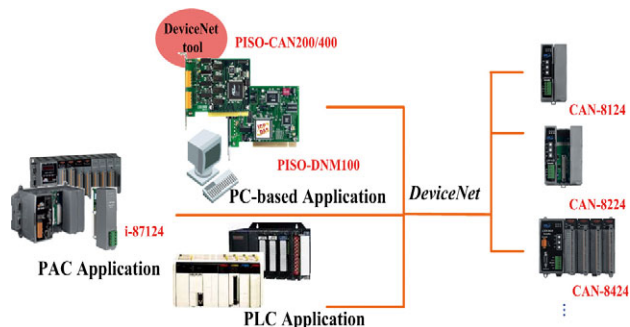
Model Name	CAN-8124		CAN-8224	
Hardware				
CPU	80186, 80 MHz or compatible			
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB			
DPRAM	8 KB			
NVRAM	31 bytes (battery backup, data valid for up to 10 years)			
RTC (Real Time Clock)	Yes			
Watchdog	CPU built-in			
Expansion Slot	1 slots	2 slots		
CAN Interface				
Controller	NXP SJA1000T with 16 MHz clock			
Transceiver	NXP 82C250			
Channel number	1			
Connector	5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+)			
Baud Rate (bps)	125 k, 250 k, 500 k			
Transmission Distance (m)	Depend on baud rate (for example, max. 500 m at 125 kbps )			
Isolation	3000 V <sub>DC</sub> for DC-to-DC, 2500 V <sub>rms</sub> for photo-couple			
Terminator Resistor	Jumper for 120 Ω terminator resistor			
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B			
Protocol	DeviceNet Volumn I ver2.0, Volumn II ver2.0 Predefined Master/Slave Connection set			
LED				
Round LED	PWR LED, NET LED, MOD LED			
Power				
Power supply	Unregulated +10 ~ +30 V <sub>DC</sub>			
Protection	Power reverse polarity protection, Over-voltage brown-out protection			
Power Consumption	1.7 W	2 W		
Mechanism				
Installation	DIN-Rail DIN-Rail or Wall Mounting			
Dimensions	64mm x 119mm x 91mm (W x L x H)	95mm x 132mm x 91mm (W x L x H)		
Environment				
Operating Temp.	-25 ~ 75 °C			
Storage Temp.	-40 ~ 80 °C			
Humidity	5 ~ 95% RH, non-condensing			

## LED Indicators

LED	Description
PWR	Indicate the status of power supply
MOD	Indicate the main or modules status
NET	This LED indicates the DeviceNet network status

## Application

## Hot Swap & Auto-configuration



## Ordering Information

<b>CAN-8124</b>	DeviceNet remote I/O unit with 1 empty slot
<b>CAN-8224</b>	DeviceNet remote I/O unit with 2 empty slot