



CAN-8124/CAN-8224

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

■ Features

- Number of Nodes: 64 max.
- Baud Rate: 125, 250, 500 kbps
- 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
- Support Hot Swap and Auto-Configuration for high profile
 I-87K I/O Modules



■ Introduction

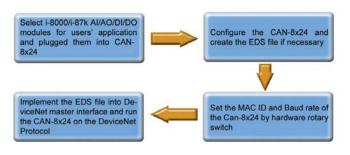
The CAN-8124/CAN-8224 main unit based on the modular design offers many good features to the users and provides more flexibility in data acquisition and control system. CAN-8124 and CAN-8224 are the DeviceNet Group 2 only Server devices. They are applied as the slaves in DevciceNet network. In addition, 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.

Utility Features

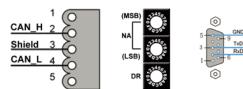


- Support I-8k/I-87K modules.
- Show I/O modules configuration.
- Show Application and Assembly Objects configuration.
- Support IO connection path setting
- Support EDS file creating

Design Flowchart

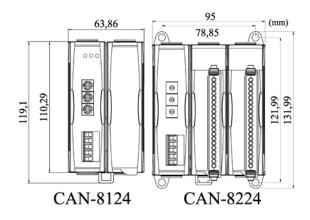


Pin Assignments



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

■ Dimensions (Units: mm)



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■ Specifications

Model Name	CAN-8124	CAN-8224	
Hardware			
CPU	80186, 80 MHz or compatible		
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB		
NVRAM	31 bytes (battery backup, data valid for up to 10 years)		
RTC (Real Time Clock)	Yes		
Watchdog	Watchdog IC		
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 _{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		
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 _{DC}		
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(W x L x H)	64mm x 119mm x 91mm	95mm x 132mm x 91mm	
Environment			
Operating Temp.	-25 ~ 75 ℃		
Storage Temp.	-30 ~ 80 °C		
Humidity	10 ~ 90% RH, non-condensing		

■ Application



■ Ordering Information

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

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