

I-7242D

Dimensions

The I-7242D is one of CAN bus products in ICP DAS. The device allows a master located on a DeviceNet network to enter into a dialogue with the slaves on a Modbus RTU network in DeviceNet network. It is a Group 2 Only Slave device, and supports "Predefined Master/Slave Connection Set". It is a general protocol converter operating in a way that is transparent to the user. In addition, we also provide the utility software for users to configure the I-7242D's parameters and build the EDS file. Users can easily apply Modbus RTU devices in DeviceNet applications with the I-7242D.





## Hardware Specifications

Item	I-7242D	
CPU	80188, 40MHz	
Flash	512K bytes	
SRAM	512K bytes	
EERROM	2048 Bytes (8 block, each block contains 256byte)	
	Data retention > 100 years; 1,000,000 erase/write cycles	
NVRAM	31 bytes	
Real Time Clock	16 bit	
Watch Dog Timer	CPU Built-in	
COM1	RS232: TXD,RXD,RTS,CTS,GND	
COM2	RS485: D2+, D2-	
CAN Controller	Phillips SJA1000T CAN Controller	
CAN Transceiver	Phillips 82C250 CAN Transceiver	
Terminal Resister	$120\Omega$ terminal resister selected by jumper	
LED Indicators	NS, MS, IO	
Display	7-segment LED: 5digit	
CAN bus Isolated	2500Vrms on CAN side	
Power Requirement	+10VDC to +30VDC	
Power Consumption	3 W	
Operating Temp.	-25°C to +75°C	
Storage Temp.	-40°C to +80°C	
Relative Humidity	5~90%, non-condensing	
Dimensions	122mm x 72mm x 33 mm (H x W x D)	

#### Application



## 5-digit 7-Segment LED Display

	Step1. Display the string "-DEV-"
	Step2. It means that the I-7242D
2 4	1 is in the normal operation mode.
$\sim$	Its MAC ID is 0x03. CAN baud
0 - 0 - 0	rate is 125 Kbps and RS-485 baud
n.u J.u. i.	rate is 115.2 Kbps.
57	
$\sim$	Step3. It means that there is one
	message lost from I-7242D to
E.U I.U I	Modbus device which device
2007-0	address is 0x01. The number
	format is hex.
	- /

# Ordering Information

LED	Indi	cators

LED	Description
MS	This LED provides device status. It indicates whether or not the device is operating properly.
NS	This LED indicates the status of the communication link.
I/O	This LED provides information of inputs and/or outputs.

## Modbus RTU Command Support

Function code.	Description
01 (0x01)	Read Coil Status
02 (0x02)	Read Input Status
03 (0x03)	Read Holding Registers
04 (0x04)	Read input Registers
05 (0x05)	Force Single Coils
06 (0x06)	Preset Single Register
15 (0x0F)	Force Multi Coils
16 (0x10)	Preset Multi Registers

I-7242D	DeviceNet Slave / Modbus RTU Master Gateway
I-7242D CR	DeviceNet Slave / Modbus RTU Master Gateway (RoHS)