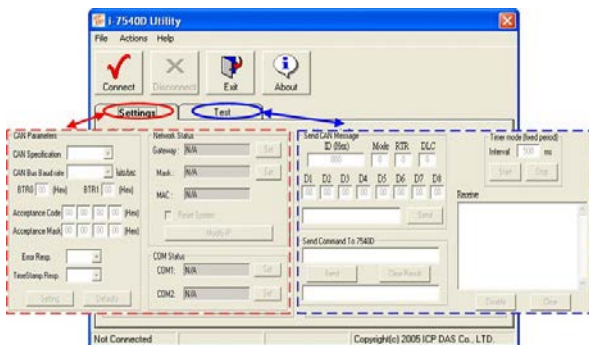# Features

- 10/100 Base-TX Ethernet controller
- Message transmitted by using TCP/IP protocol and maximum 25 Ethernet client connections
- COM driver support interrupt and 1K QUEUE input & output buffer
- 2500Vrms photo-isolation protection on CAN side
- Jumper for 120Ω terminal resistor for CAN channel
- NXP 82C250 CAN Transceiver
- Support both CAN specification 2.0A and 2.0B
- Max transmission speed up to 1M bps for CAN and 115.2kbps for RS-232 & RS-485
- Web Configuration
- Support Virtual COM technology

I-7540D   I-7540DM
Intelligent CAN to Ethernet Gateway

Introduction

The I-7540D series by ICP DAS are solutions that enable CAN networks to be integrated into the Internet/Ethernet, whereby remote monitor and control is possible. The I-7540D controls networked communication and makes a transparent CAN-based application interface available to the user. The device supports not only a transparent and protocol-independent transfer of the CAN messages, but virtual COM technology. Thus it allows to be implemented into a various applications.
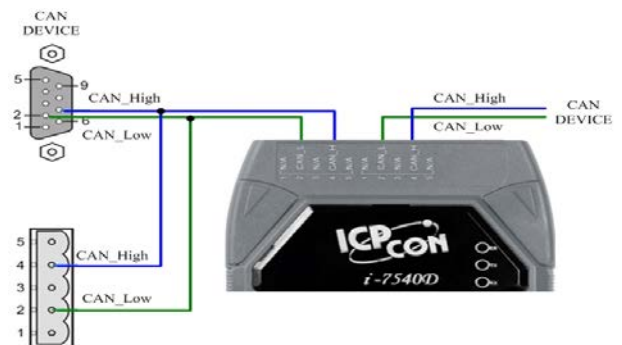
Utility Features

- IP、Gateway and Mask configuration
- CAN bus baud rate configuration
- CAN BTR0 and BTR1 configuration
- CAN acceptance filter configuration
- CAN 2.0A or 2.0B specific selection
- Error code response selection
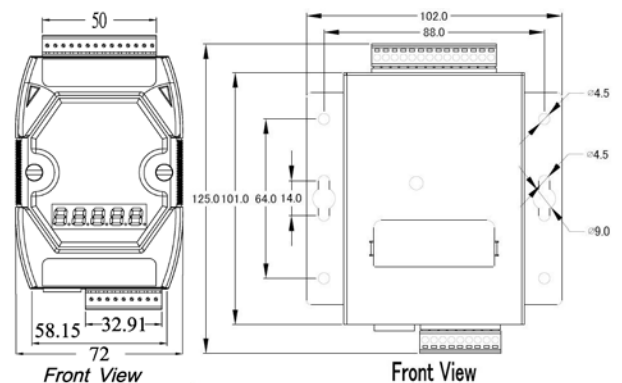- Utility tool for transmitting / receiving CAN messages

CAN Monitor & Data log Tools

- Show CAN messages by hex or decimal format
- CAN messages with timestamp
- Easy-to-use data logger for the diagnosis of the CAN networks and recording of the received data
- Send the predefined CAN messages manually or cyclically

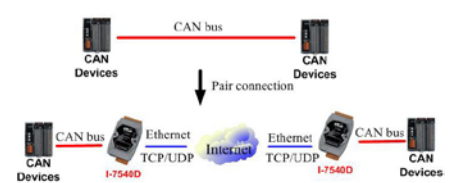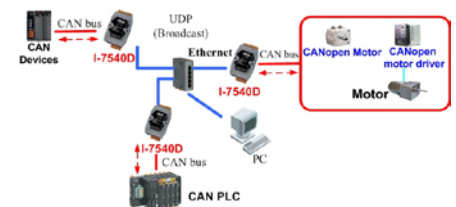## Wire Assignments

Dimensions (Units: mm)

■ Application

■ Hardware Specifications

Model Name	I-7540D	I-7540DM
CAN Interface		
Controller	NXP SJA1000T with 16 MHz clock	
Transceiver	NXP 82C250	
Channel number	1	
Connector	2-pin screwed terminal block (CAN_L, CAN_H)	
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 M (allow user-defined baud rate)	
Isolation	1000 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 and CAN 2.0B	
UART Interface		
COM 1	RS-232	
COM 1 Connector	5-pin screwed terminal block (TxD, RxD, RTS, CTS, GND)	
COM 2	RS-485 (Self-turner inside)	
COM 2 Connector	2-pin screwed terminal block (DATA+, DATA-)	
Baud Rate (bps)	110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	
Data bit	7, 8	
Stop bit	1	
Parity	None, Even, Odd	
Ethernet Interface		
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)	
Connector	RJ-45 with LED indicator	
Power		
Power supply	Unregulated +10 ~ +30 V_{DC}	
Protection	Power reverse polarity protection, Over-voltage brown-out protection	
Power Consumption	2.5 W	
Mechanism		
Installation	DIN-Rail	Wall Mount
Dimensions (W x L x H)	72mm x 122mm x 33mm	102 mm x 125 mm x 28 mm
Environment		
Operating Temp.	-25 ~ 75 ℃	
Storage Temp.	-30 ~ 80 ℃	
Humidity	10 ~ 90% RH, non-condensing	

■ Ordering Information

I-7540D-G CR	Intelligent CAN to Ethernet Gateway (RoHS)
I-7540DM	Intelligent CAN to Ethernet Gateway with Metal casing