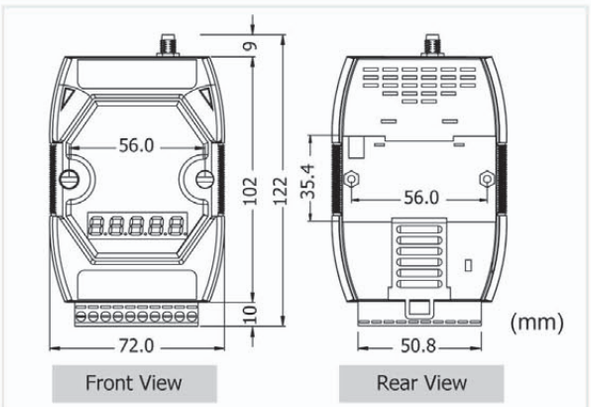
CAN bus Converter

Industrial CAN to Wi-Fi Converter

I-7540D-WF

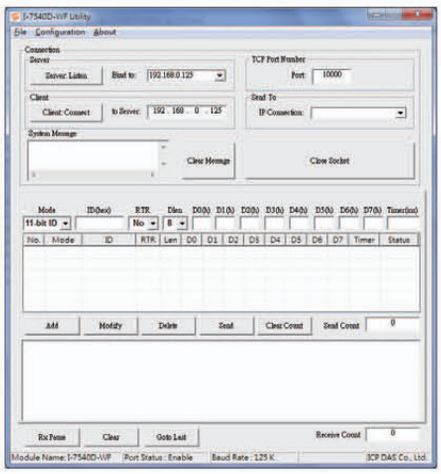


Dimensions

The I-7540D-WF supports the wireless transmission of CAN data between a CAN network and a WLAN network according to the 802.11b/g standard. The I-7540D-WF is highly suitable for connecting mobile (e.g., vehicles or machines) or stationary CAN networks and is often used for short ranges up to 100 or 300 m. There are two operating modes in the I-7540D-WF: In the access point mode, the data connection takes place over one or several WLAN access points that are often part of the company's internal IT infrastructure. In the ad-hoc mode, a direct connection is established between a single I-7540D-WF device and a PC or laptop (with an integrated WLAN interface), or with a second I-7540D-WF device.

Features

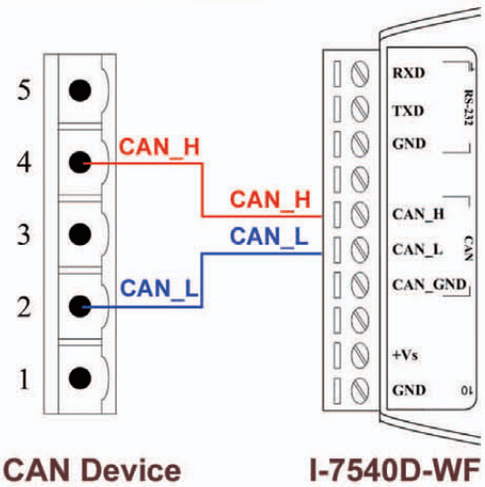
- IEEE 802.11b/g compliant
- Wireless data transmission via WLAN
- Two different operation modes: infrastructure and ad-hoc
- Point to point or point to multi-points connection via wireless LAN
- Supports WEP, WPA and WPA2 encryption for wireless LAN
- CAN 2.0A/2.0B compliant
- Communication efficiency: one-way is up to 700 fps (client->server, server->client)，two-way 350 fps (client<=>server)
- Wireless communication: 100m(Without PA) / 300m(With PA)



Utility Features

- IP、Gateway and Mask configuration.
- CAN bus baud rate configuration.
- Provide wireless LAN configuration interface.
- Provide encryption configuration for wireless LAN
- Utility tool for transmitting / receiving CAN messages

Wire Assignments

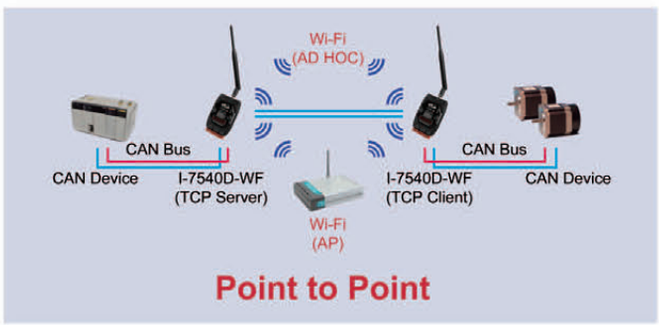


CAN Device I-7540D-WF

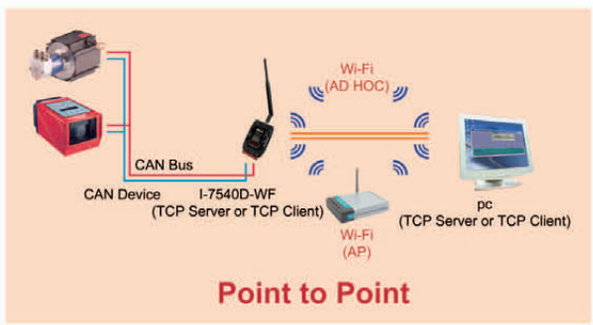
Hardware Specifications

Hardware	
CAN Port Channels	1
CAN Interface	
Controller	CAN Controller inside
Transceiver	NXP 82C250
Connector	10-pin screw terminal connecter
Baud Rate (bps)	5K ~ 1Mbps
Isolation	3000 V_{DC} power protection on CAN side, 2500Vrms photo-couple isolation on CAN bus
Terminator Resistor	Selectable 120Ω terminator resistor by jumper
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Pin Assignment	CAN_H, CAN_L
Max Data Flow	700 fps(one-way)
UART Interface	
Connector	10-pin screw terminal connecter
COM1	RS-232(TXD, RXD, GND)
Baud Rate (bps)	115200
Wi-Fi Interface	
Module	MLiS WiFi Module 802.11b/g
Wi-Fi Channels	1
LED	
Round LED	PWR / Wi-Fi / CAN / CNT / WLAN
Power	
Power supply	+10 ~ +30 V_{DC}
Power Consumption	1.5 W
Dip Switch	Init (Firmware Update) / Normal (Firmware Operation)
Mechanism	
Installation	DIN-Rail
Dimensions	122mm x 72mm x 35mm (H x W x D)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

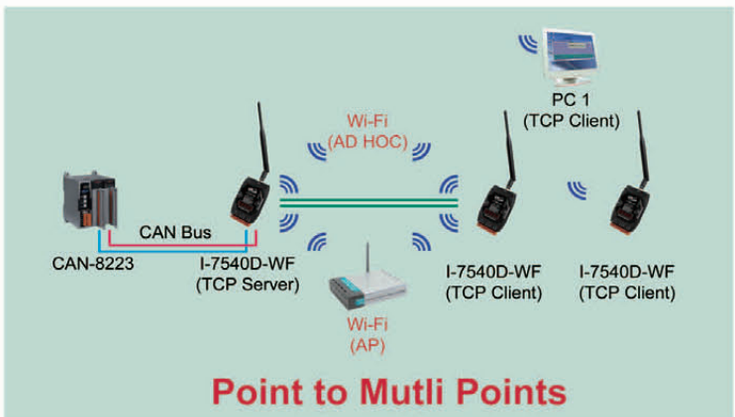
Application



Point to Point



Point to Point



Point to Mutli Points

Ordering Information

I-7540D-WF CR	CAN to Wi-Fi Converter (RoHS)