



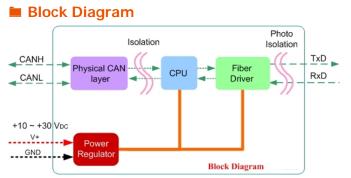
CAN to Single Mode Fiber Bridge

Introduction

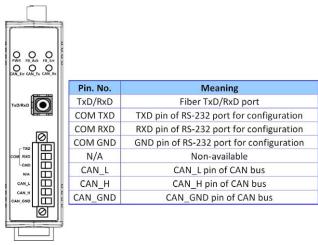
The I-2533CS-A and I-2533CS-B are local CAN bridges used to establish a connection between two CAN Bus systems via single mode fiber optic. It can unleash the transmission distance limitation of the fiber optic due to the higher CAN baud rate. Besides, the I-2533CS-A and I-2533CS-B support Wavelength Division Multiplexing (WDM) technology so that only a single fiber cable is needed for transmitting bi-directional CAN data. As the I-2533CS-A and I-2533CS-B must be paired because of hardware limitations, this means that the cost of deploying fiber cable can be effectively reduced.

Hardware Specifications

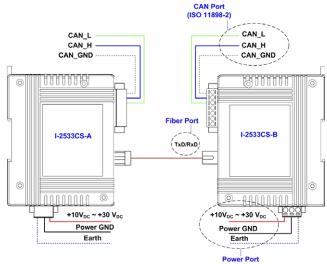
Module Name	I-2533CS-A I-25	533CS-B
CAN Interface		
Connector	Screwed terminal block (CAN_GND, CAN_L, CAN_H)	
Baud Rate (kbps)	10, 20, 50, 80, 100, 125, 250, 500, 800, 1000 and User-defined baud rate	
Terminal Resistor	Switch for 120Ω terminal resistor	
Isolation	3000 V_{DC} for DC-to-DC, 2500 Vrms for photo-couple	
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B	
Fiber Interface		
Туре	SC type ; Single mode ; 100 Base-FX	
Wave Length (nm)	TX: 1310, RX: 1550 TX: 1550, RX: 1310	1
Fiber Cable (µm)	8.3/125, 8.7/125, 9/125 or 10/125	
Transmission Distance (km)	15 (indicative only), (9/125 μm recommended)	
Min. TX Output (dBm)	-8	
Max. TX Output (dBm)	-14	
Max. RX Sensitivity (dBm)	-31	
Max. RX Overload (dBm)	0	
Budget (dBm)	23	
LED		
Round LED	PWR, FB_Ack, FB_Err, CAN_Err, CAN_Tx and CAN_Rx LEDs	
Power		
Power supply	Unregulated +10 \sim +30 V _{DC}	
Protection	Power reverse polarity protection, Over-voltage brown-out protection	
Power Consumption	3 W	
Mechanism		
Installation	DIN-Rail	
Dimensions	33.0 mm x 126 mm x 101 mm (W x L x H)	
Environment		
Operating Temp.	-25 ~ 75 °C	
Storage Temp.	-30 ~ 80 °C	
Humidity	10 ~ 90% RH, non-condensing	



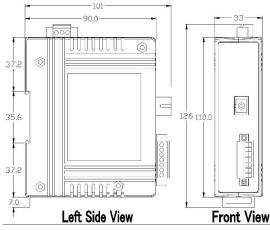
🖿 Pin Assignments



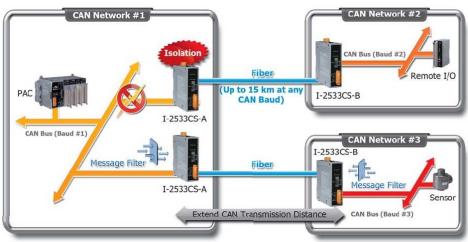
Wire Connection



Dimensions (Units: mm)



Application



Ordering Information

I-2533CS-A CR	CAN to Single Mode Fiber Bridge ; 1 (15 Km) single mode, SC connector, TX 1310 nm, RX 1550 nm (RoHS)
I-2533CS-B CR	CAN to Single Mode Fiber Bridge ; 1 (15 Km) single mode, SC connector, TX 1550 nm, RX 1310 nm (RoHS)