



I-7551

Isolated RS-232 to RS-232 Converter

Features

- 3000 V_{dc} 3-way Isolation Protection
- ESD Protection
- Power Input, +10 ~ +30 V_{dc}
- Baud Rate, 300 ~ 115200 bps
- Operating Temperatures, -25 °C ~ +75 °C
- DIN-Rail



Introduction

The I-7551 Photo coupler provides a complete full-duplex (including control signal) electrical isolation channel between two RS-232 devices. This isolation is an important consideration if a system uses different power sources, has noisy signals, or must operate at different ground potentials.

The I-7551 provides the option of reconfiguring which control signal is used. CTS can be selected instead of DSR, and R TS instead of DTR.

The I-7551 incorporates two DC-to-DC converters, the isolation site of the I-7551 is located in the input and output interface circuit. In other words, the I-7551 is 3-way isolation RS-232 to RS-232 repeater.

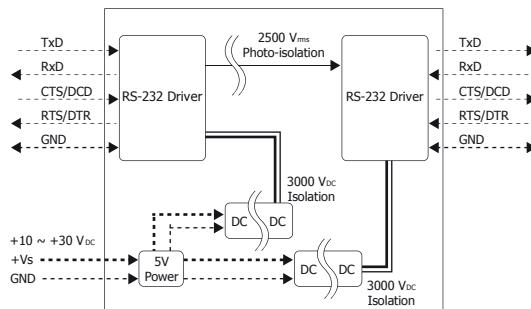
Applications



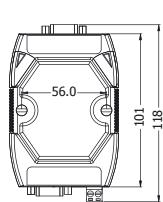
Specifications

Interface	
Input	TxD, RxD, CTS, RTS, GND or TxD, RxT, DSR, DTR, GND Jumpers JP1 and JP2 are used to select the RS-232 input source type
Output	TxD, RxD, CTS, RTS, GND or TxD, RxT, DSR, DTR, GND
Transfer Distance	Max. 15 M at 115200 bps
Speed	300 ~ 115200 bps
ESD Protection	Yes
3000 V _{dc} Three Way Isolated Protection	Yes
Connection	RS-232 Input: 9-Pin Female D-Sub RS-232 Output: 9-Pin Male D-Sub
LED Indicators	
Power/Communication	Yes
Power	
Input Voltage Range	+10 V _{dc} ~ +30 V _{dc} (Non-isolated)
Power Consumption	1.2 W
Mechanical	
Casing	Plastic
Flammability	Fire Retardant Materials (UL94-V0 Level)
Dimensions (W x H x D)	72 mm x 118 mm x 35 mm
Installation	DIN-Rail
Environment	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +75 °C
Humidity	10 ~ 90% RH, non-condensing

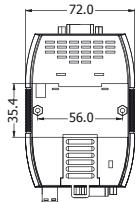
Internal I/O Structure



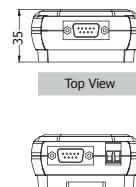
Dimensions (Unit: mm)



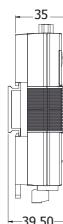
Front View



Back View



Bottom View



Din-Rail Mounting Bracket



Side View

Pin Assignments



Pin Assignment	Terminal No.	Pin Assignment
GND	01	06 DTR
TxD	02	07 CTS
RxD	03	08 RTS
DSR	04	09 DSR
--	05	

RS-232 Input: Female DB-9 Connector

Pin Assignment	Terminal No.	Pin Assignment
GND	05	09 --
DTR	04	08 CTS
TxD	03	07 RTS
RxD	02	06 DSR
--	01	

RS-232 Output: Male DB-9 Connector

Ordering Information

I-7551	Isolated RS-232 to RS-232 Converter (RoHS)

Accessories

712-7408	24 V _{dc} /0.25 A, 15 W Power Supply