

I-7551

Isolated RS-232 to RS-232 Repeater

Features

- 3000 VDC 3-way Isolation Protection
- Transmission Speed of up 115200 bps
- ESD Protection
- DIN-Rail Mounting

Introduction

The I-7551 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 CTS/RTS pins of the I-7551 module can be reconfigured as DSR/DTR to meet requirements on different applications.

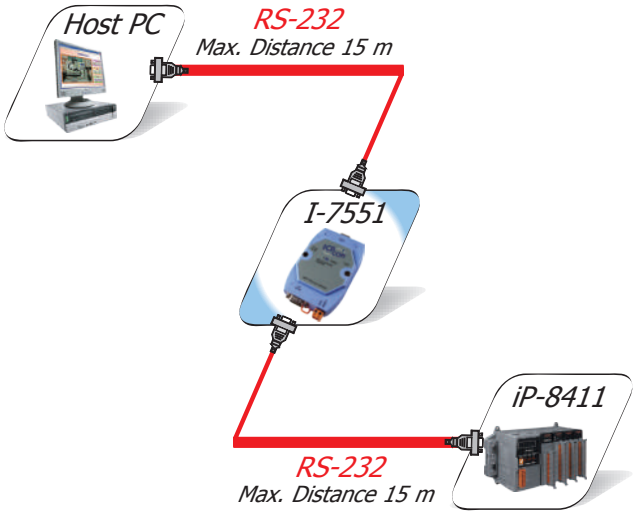
The I-7551 incorporates two DC-to-DC isolator, the isolation side of the I-7551 is located in the input and output interface circuit. In other words, the I-7551 is 3-way isolated RS-232 to RS-232 repeater.

System Specifications

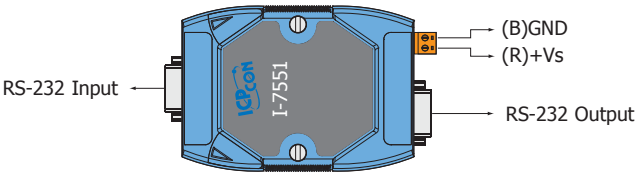
Interface		
Input		TxD, RxD, CTS, RTS, GND (Default) or TxD, RxD, DSR, DTR, GND Jumpers JP1 and JP2 are used to select the RS-232 input source type
Output		TxD, RxD, CTS, RTS, GND (Default) or TxD, RxD, DSR, DTR, GND
Transmission Distance		Max. 15 M at 115200 bps
Speed		300 ~ 115200 bps
ESD Protection		Yes
3000 VDC Three Way Isolated Protection		Yes
Connector	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 VDC ~ +30 VDC (Non-isolated)
Power Consumption		1.2 W
Mechanical		
Casing		Plastic
Dimensions (W x L x H)		72 mm x 35 mm x 118 mm
Installation		DIN-Rail Mounting
Environment		
Operating Temperature		-25 °C ~ +75 °C
Storage Temperature		-30 °C ~ +75 °C
Humidity		10 ~ 90% RH, non-condensing

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Applications



Pin Assignments



TxD, RxD, CTS, RTS, GND (Default)

RS-232 Input

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

Female DB-9 Connector

RS-232 Output

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

Male DB-9 Connector

TxD, RxD, CTS, RTS, GND

RS-232 Input

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

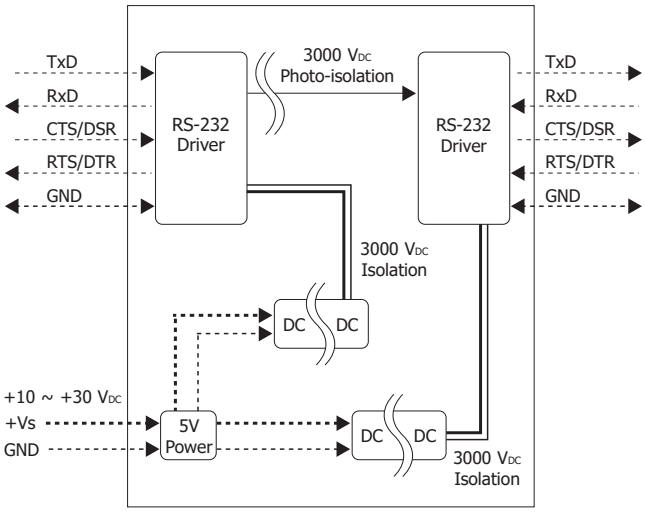
Female DB-9 Connector

RS-232 Output

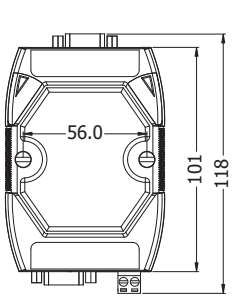
Pin Assignment	Terminal No.	Pin Assignment
GND	05	09 --
DTR	04	08 --
TxD	03	07 --
RxD	02	06 DSR
--	01	

Male DB-9 Connector

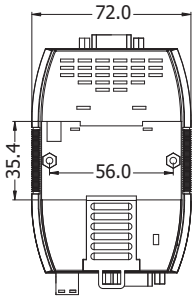
Internal I/O Structure



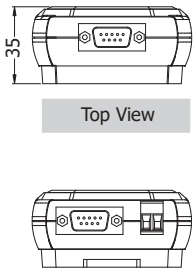
Dimensions (Units: mm)



Front View

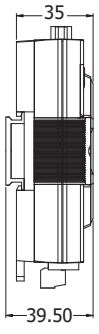


Rear View

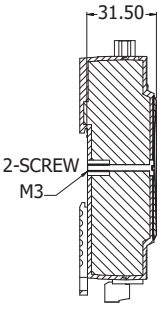


Top View

Bottom View



DIN-Rail Mounting Bracket



Side View

Ordering Information

I-7551 CR	Isolated RS-232 to RS-232 Repeater (Blue Cover) (RoHS)
I-7551-G CR	Isolated RS-232 to RS-232 Repeater (Gray Cover) (RoHS)

Accessories

GPSU06U-6 CR	Power Supply, 110~240 VAC to 24 VDC/0.25 A, 6 W, two pins USA plug (RoHS)

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000