

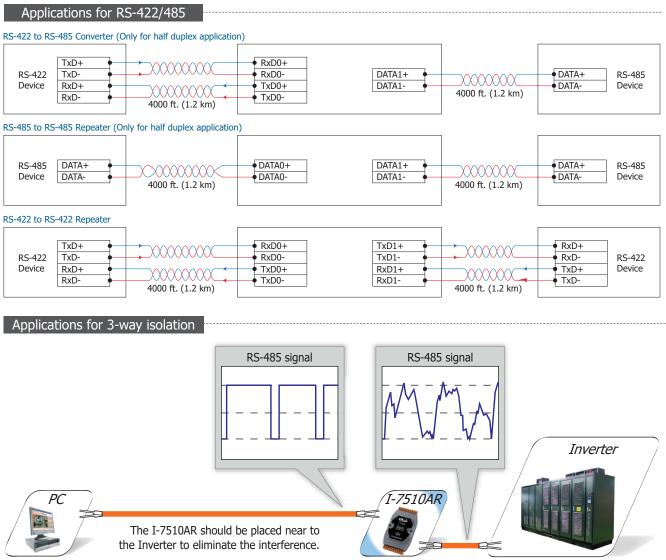
## Introduction

The I-7510AR provides 3-way optical isolation between one piece of RS-422/RS-485 power side equipment and the rest of the system. It can also be used as a repeater to extend the transmission of an existing network. Additionally, an RS-485 system can be expanded beyond the 256 node limitation imposed by the standard. It can also be used to convert a four-wire RS-422 signal into a 2-wire RS-485 signal, and vice versa.

The I-7510AR is exactly the same as the I-7510A, except for the isolation side. The isolation side of the I-7510A is located in the input interface circuit, but the isolation side of the I-7510AR is located in the input and output interface circuit. In other words the I-7510AR is 3-way isolation repeater module.

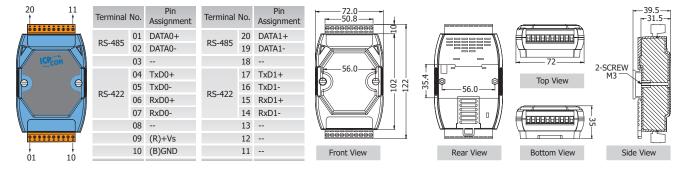
Interface		
Serial Interface	RS-422	TxD+, TxD-, RxD+, RxD- The RS-422 and RS-485 cannot be used simultaneously
	RS-485	Data+, Data-
Transmission Distance		Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps (Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change)
Self-Tuner Asic Inside		Yes
Speed		300 ~ 115200 bps
ESD Protection		Yes
Isolated Voltage		3-way 3 kV Isolated
Connector		Removable 10-Pin Terminal Block x 2
LED Indicators		
Power/Communication		Yes
Power		
Input Voltage Range		+10 VDC ~ +30 VDC
Power Consumption		2.2 W
Mechanical		
Casing		Plastic
Dimensions (W x L x H)		72 mm x 35 mm x 122 mm
Installation		DIN-Rail Mounting
Environment		
Operating Temperature		-25 °C ~ +75 °C
Storage Temperature		-30 °C ~ +75 °C
Humidity		10 ~ 90% RH, non-condensing

# Applications



#### Pin Assignments

#### Dimensions (Units: mm)



## Ordering Information

I-7510AR CR	Three Way Isolated RS-422/485 Repeater/Converter (Blue Cover) (RoHS)
I-7510AR-G CR	Three Way Isolated RS-422/485 Repeater/Converter (Gray Cover) (RoHS)

### Accessories

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