

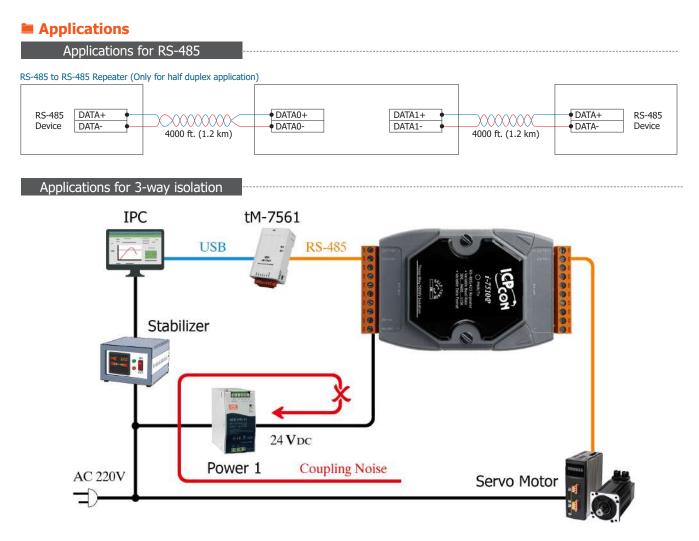
### Introduction

The I-7510P provides 3-way optical isolation between one piece of 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 2-wire RS-485 signal, and vice versa.

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

Interface		
Serial Interface	RS-422	-
	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 5 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

## System Specifications



### Pin Assignments

### 20 Terminal No. Pin Pin Terminal -72.0 Assignment Assignment No. 00000 01 DATA+ 20 DATA1+ DATA1-02 DATA-19 Π П 03 ---18 ---2-SCREW M3 56.0 04 17 -------35.4-Top View 122-05 ---16 ---56.0 06 ---15 07 ---14 ---08 ---13 ---... 09 (R)+Vs 12 ---10 (B)GND 11 --, 01 10 Front View Rear View Bottom View Side View

Dimensions (Units: mm)

## Ordering Information

I-7510P CR Three Way 5 kV Isolated RS-485 Repeater (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)