

## Forcom Technology Co., Ltd.

**FORCOM**

Tel: +886-2-77296880 Fax: +8862-27055495

e-mail: [info@forcomtech.com.tw](mailto:info@forcomtech.com.tw)

URL: <http://www.forcomtech.com.tw>



## RS-422/485 Repeater with 3KV Isolation + 600W Surge

### Model No.: RPR32-IS

Isolation 3000VDC

- .Industrial specification
- .Fully compatible with serial RS422/485
- .DC power supply (10~30V) Built in Surge Protector
- .Auto Toggling by hardware
- .Communication status can be monitored through LEDs
- .Dip switch for selecting RS422/485 modes, Terminal Resistance
- .Max. 10 Device Connectivity for RS422 Multi-Drop Mode
- .Max. 32 Device Connectivity for RS485 Mode

Repeater RS422/485 signals to RS422/485. It is an efficient solution for applying advantages of RS422/485 to legacy RS422/485 devices. The repeater operates with no extra software installation. With simple DIP switch toggling, RS422 or RS485 can be selected. Also, the product is fully compatible with serial COM port in PC.

## Using 4-wire RS485

4-Wire RS485 Networking is same as RS422 Multi-Drop Networking. RS422 device is used as master and RS485 device is used as slave in 4-Wire RS485 bus. Although RS422 and RS485 have different electrical standards, most manufacturers make ICs that uses both RS422 and RS485 interface. Therefore, RS422 Multi-Drop and 4-Wire RS485 can be considered equal. However, there can be difference in software that controls them. Since our device can operate regardless of the application software, it is ok to use without any trouble. In this case, set RS422 Multi-Drop mode.

## Applications

- .RS-422/485 communication
- .Utility meters
- .Industrial process control
- .Building automation
- .Industrial-controlled Local Area Network
- .Industrial PCs and PC peripherals devices

## Serial Converter

Mode	Asynchronous serial communication
Speed	Up to 460.8kbps
Connector	RS422/485 : Terminal Block 5P 5.08 ,RS422/485 : Terminal Block 7P 5.08mm
Signals	TX+,TX-,RX+,RX- for RS422/485
Protection	15KV ESD Protection for all signals RS422/485 signals Surge Protection
Distance	Max 1.2Km 115.2Kbps,24AWG twisted pair cable
Data Bits	5,6,7,8
Stop Bits	1,1.5,2
Parity	None,Even,Odd,Space,Mark
RS422 mode	Point to Point,Multi Drop
Switch	RS422 Term.Resistor setting
	RS485 Term.Resistor setting
	RS422/485 selection

## Software

OS	No Software Required
----	----------------------

## Hardware

Power Input	10~30VDC Terminal Block 7P 5.08mm
Power Consumption	53mA@24VDC

LED	Power, TXD, RXD
Isolation	Optical 3000 VDC max
Dimensions	42.5(W)x22.5(H)106(D)mm
Weight	86g
Terminal Block	12~24AWG

Terminal Block 7 PIN Define

	RS422	RS422Multi-Drop/RS485 4W	RS485
1	TX+	TX+	
2	TX-	TX+	
3	RX+	RX+	DATA+
4	RX-	RX-	DATA-
5	SG	SG	SG
6	VCC	VCC	VCC
7	GND	GND	GND

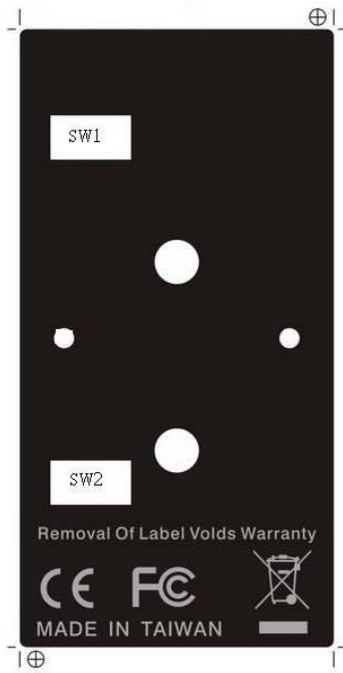
Terminal Block 5 PIN Define

	RS422	RS422Multi-Drop/RS485 4W	RS485
1	SG	SG	SG
2	RX--	RX-	DATA-
3	RX+	RX+	DATA+
4	TX-	TX-	
5	TX+	TX+	

DIP SW1

DIP SW SET	1	2	3	4	
0=OFF,1=ON	0	0	0	x	RS422
	0	0	1	x	RS422
	1	0	1	x	RS485 4W,RS422 Multi Drop
	0	1	0	x	RS485 2W
	x	x	x	1	RS422/485 Term.Resistor ON

DIP SW2 All SW Only RS422/485 Term.Resistor ON



Environmental

Operating Temp	-30~75°C
Storage Temp	-40~85°C
Humidity	5~95% Non-Condensing
Case	PC

Approvals

CE ,FCC RoHs Compliant

Dimension

