



## RS-485 to RS-232 Converter (RCN-300)

### Overview

**RCN-300** is a high speed RS-232 to RS-485 interface converter supports Asynchronous RS-232 data rates upto 115.2Kbps over one unconditioned twisted copper pair. RCN-300 is powered from handshake signals of RS-232 interface so does not requires any external AC or DC power supply. RCN-300 enables the RS-485 interface automatically whenever data is present on the RS-232 interface side. RCN-300 provides 600watts protection on each wire against harmful data line transient surges. It is used widely in the field of electricity, industrial automatic control, Card billing system, Conveyer belt, Time clock and robot automation for data acquisition & control.

### Key Features

- Plug and play, compact size, easy to install.
- 2 wire operation
- Convert RS-232 signal into balance half duplex RS-485 signals.
- Powered from RS-232 handshake lines, no power supply required.
- Point to multiple point and point to point operations
- Automatic Send Data Control, no software drivers required
- Auto sense serial signal rate, zero delay automatic transmit



### Applications

- P2P Multi-drop applications
- P2MP Multi-drop applications

### Specification

<b>Model</b>	<b>RCN 400</b>
<b>Standard</b>	Fully Complies to EIA RS-232 and EIA RS-485 standard
<b>RS-232 signal</b>	TX, RX, GND (2 wire)
<b>RS-485 signal</b>	D+, D-, GND (2 Wire)
<b>Operation</b>	Asynchronous, point to point or multi point, 2 wire half-duplex
<b>Direction</b>	Automatic send data control, auto distinguish and sense direction of data transfer
<b>Data rate</b>	Upto 115200bps, auto sense
<b>Bus load</b>	Support upto 32 terminal drops in a multi-point polling environment (options upto 128 terminals)
<b>Transmission range</b>	RS-485 side 1250M(@9600bps), RS-232 side less than 5M
<b>Interface protection</b>	600W surge protection, 15KV static protection
<b>Connector</b>	RS-232 side DB-9 female, RS-485 side 3 terminal block
<b>Working temperature</b>	-400C to 800C
<b>Humidity</b>	Relative humidity 5% to 95%
<b>Power</b>	No power supply needed, powered from TXD, RTS, DTR signal in RS-232 port
<b>Power Consumption</b>	Idle power consumption less than 10mA, Working power consumption less than 40mA
<b>L*W*H</b>	90mm*33mm*16.5mm
<b>Enclosure</b>	Plastic

### Ordering Information:

**RCN-300:** Interface Powered RS-485 to RS-232 Interface Converter

RealTime reserves the right to change or modify or update or clarify specifications without notice in the interest of technological advancement.

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