

# RS232-RS422/485 Serial Converter, LTC100



**LTC100** is a high performance signal converter between RS-232 and RS-422/485 which operates with or without external power source. It supports both half duplex 2-wire RS-485 and full duplex 4-wire RS-422. The LTC100 is also equipped with 15 KV ESD surge protector to protect itself against damage from electrostatic discharge.

## Features

- Max. distance 1.2 km
- Fully compatible with PC serial COM ports
- No external power supply required (port-powered)
- Optional external DC power supply (7~12VDC)
- Built-in surge protector up to 15kV
- RTS auto toggling
- Communication status can be monitored using LEDs
- DIP switch for RS422/485 mode selection
- Max. 10 device connectivity for RS422 multi-drop mode
- Max. 32 device connectivity for RS485 mode

## Exterior



## Ordering Information

### LTC100-01 Includes

- LTC100 : Serial Converter
- User Manual

### Optional Accessories

- GEP0504028 : AC adapter (9V 300mA 3.47PHI for EU)
- GEP0504029 : AC adapter (9V 500mA 3.47PHI for US)

## Specifications

### Serial Interface

- Mode : asynchronous serial communication
  - RS422 mode : point-to-point, multi-drop
  - RS485 mode : echo, non-echo
- Speed : up to 115.2Kbps
- Distance : max. 1.2Km @115.2Kbps, 24AWG twisted pair cable
- Connector
  - RS232 : DB9 female
  - RS422/485 : terminal block 5P
- Signals
  - RS232 : TXD, RXD, DCD, DSR, RTS, DTR, CTS, GND
  - RS422 : RXD-, RXD+, GND, TXD-, TXD+
  - RS485 : TRXD-, TRXD+
- Protection : 15KV surge protection for all signals
- Data bits : 5, 6, 7, 8
- Stop bits : 1, 1.5, 2
- Parity : none, even, odd, space, mark
- RTS control : auto toggling

**LEDs** : Power, TX, RX

### Power

- Power input : 7~12VDC
- Power consumption : 0.4W (33mA@12V)

### Environmental

- Operating temperature : 0 ~ 55°C (32~131°F)
- Storage temperature : -20~70°C (-4~158°F)
- Humidity : 5 ~ 95% non-condensing

### Physical Properties

- Dimension : 74(W)x37(H)x19(D)mm
- Weight : 33g

**Certification** : CE, FCC, KCC

**Warranty** : 1-year limited warranty

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