



## TLC485 Series

### Passive Pocket RS-232 to RS-485 Interface Converter

- Support bidirectional data conversion between 1 RS-232 serial port and 1 RS-485 serial port
- Unique port-power technology, no need for external power supply
- Low power consumption, equal to that of normal light-emitting diodes in static operation, can be truly called passive
- Automatic serial port signal rate detection, support 0~115200bps serial port baud rate
- Adopt automatic data flow control technology, which can detect and control the direction of data transmission
- Compact size and easy installation



## Introduction

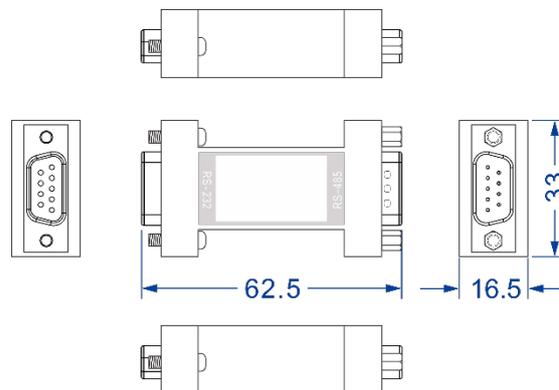
TLC485 series are pocket RS-232 to RS-485 interface converters with high cost-effectiveness, which can implement bidirectional data conversion between serial port RS-232 and RS-485 and need no external power supply. This series have two types of products and provide a RS-232 and a RS-485 serial port that support optional DB9 and DB25 connection, which can meet the requirement of different scenes.

The RS-232 port of TLC485 series could connect to PC directly and obtain power from PC serial port via TXD, RTS and DTR signal line. RS-485 serial port DB9M is equipped with pluggable terminal blocks which is easy and convenient to use and can be widely used in point-to-point communication, industrial distributed system, POS cash register, bank, insurance, security, canteen food selling system, transportation toll system, industrial distributed control, various PLC, data watt-hour meter, gas meter, etc.

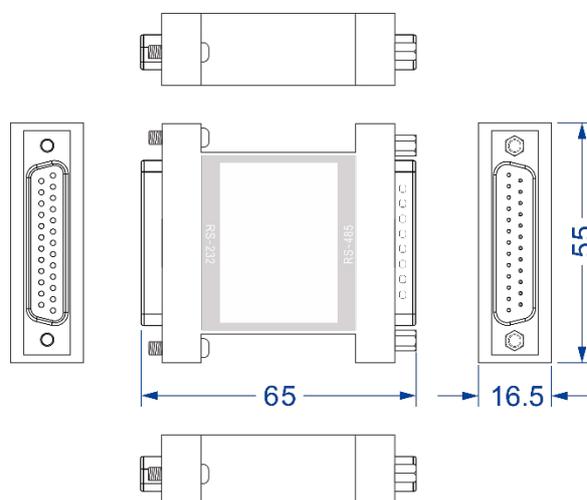
## Dimension

Unit:mm

- DB9



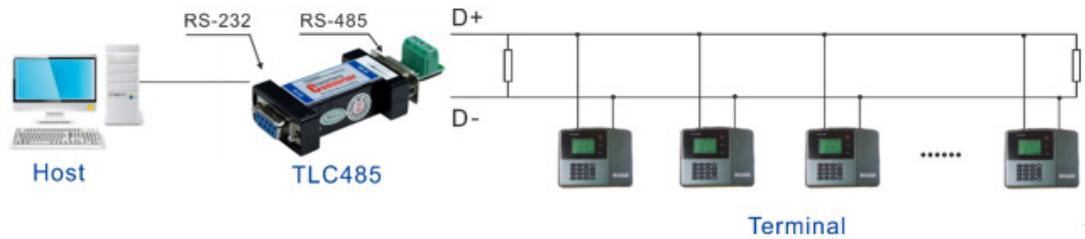
- DB25



## Specification

<p><b>Serial Port</b></p>	<p>Standard: EIA RS-232C, RS-485                      Serial port quantity: 1 RS-232 serial port, 1 RS-485 serial port                      Baud rate: 0~115200bps                      RS-232 signal: TXD, RXD, GND                      RS-485 signal: 485+, 485-, GND                      Interface type: RS-232 serial port, adopts DB9 or DB25, Female;                      RS-485 serial port, adopts DB9 (equipped with 3-pin terminal blocks) or DB25M                      Transmission distance: RS-232 serial port, 15m;                      RS-485 serial port, 1200m                      Direction control: RS-485 adopts automatic data flow control technology which can detect and control data transmission direction automatically                      Load capacity: RS-485 supports 32-point polling environment (128-point could be customized)                      Interface protection: 15kV electrostatic protection</p>
<p><b>Power Requirement</b></p>	<p>No power supply;                      Obtain power from TXD, RTS, DTR signals of RS-232 serial port</p>
<p><b>Power Consumption</b></p>	<p>Static power consumption: ≤10mA                      Dynamic power consumption(mean): ≤40mA</p>
<p><b>Environmental Limit</b></p>	<p>Operating temperature: -20~60℃                      Storage temperature: -25~85℃                      Relative humidity: 5% ~ 95%(no condensation)</p>
<p><b>Physical Characteristic</b></p>	<p>Housing: plastic                      Dimension (W x H x D): 90mm×33mm×16.5mm (DB9, with terminal blocks)                      65mm×55mm×16.5mm (DB25)                      Weight: 40g</p>
<p><b>Certification</b></p>	<p>CE, FCC, RoHS</p>
<p><b>Warranty</b></p>	<p>3 years</p>

## Typical Application



## Ordering Information

Available Models	RS-232 (DB9)	RS-232 (DB25)	RS-485 (DB9)	RS-485 (DB25)	Power Supply
TLC485/9	1	—	1	—	No
TLC485/25	—	1	—	1	



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