3onedata
Reliable Connections



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

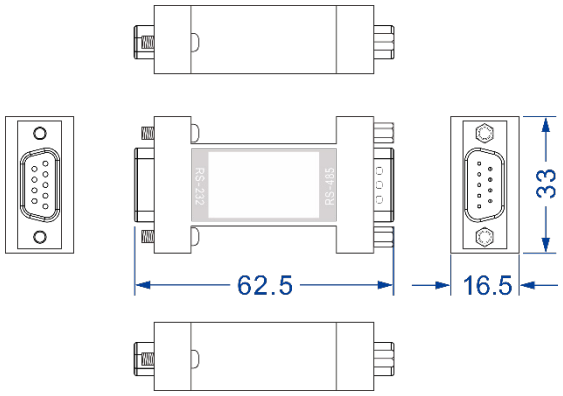
TLC485 series are pocket RS-232 to RS-485 interface converters with high cost-effectiveness, which can implement bidirectional data conversion between serial port RS-232 and RS-485 and need no external power supply. This series have two types of products and provide a RS-232 and a RS-485 serial port 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.

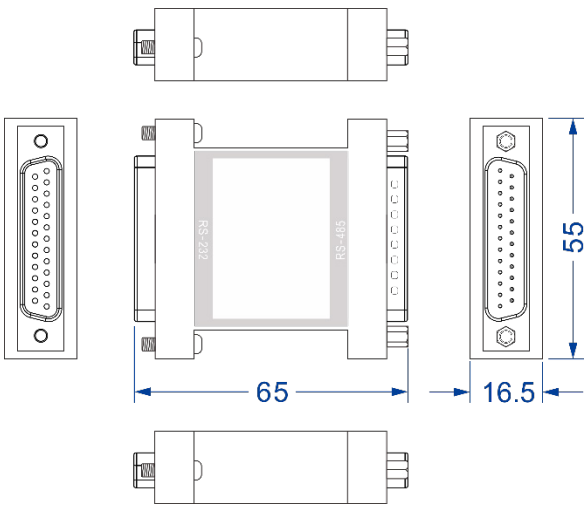
Dimension

Unit:mm

- DB9



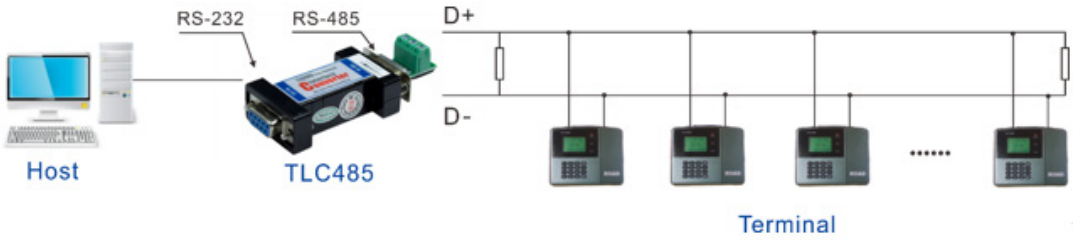
- DB25



Specification

Serial Port	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
Power Requirement	No power supply; Obtain power from TXD, RTS, DTR signals of RS-232 serial port
Power Consumption	Static power consumption: ≤10mA Dynamic power consumption(mean): ≤40mA
Environmental Limit	Operating temperature: -20~60℃ Storage temperature: -25~85℃ Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: plastic Dimension (W x H x D): 90mm×33mm×16.5mm（DB9，with terminal blocks) 65mm×55mm×16.5mm（DB25） Weight: 40g
Certification	CE, FCC, RoHS
Warranty	3 years

Typiacal 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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