**3onedata**
Make network communication more reliable

# TLC485
# Interface Converter
# Quick Installation Guide
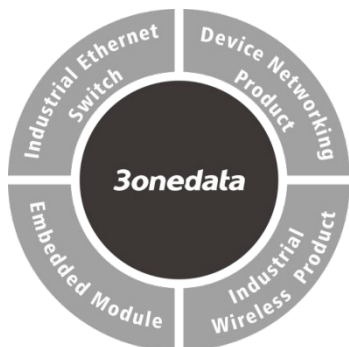


## 3onedata Co., Ltd.

## 【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. Interface converter
2. Quick installation guide
3. DB9 female head or DB9 female head to 3-pin terminal block converter
4. Certification
5. Warranty card

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.
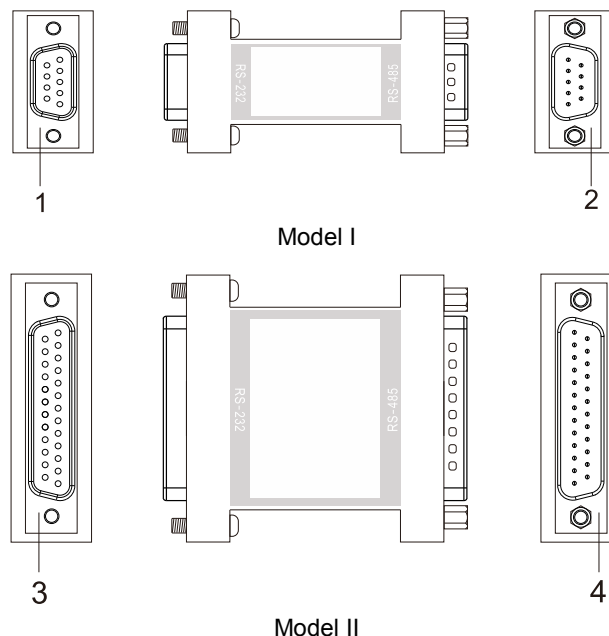
## 【Product Overview】

The product is a mini passive RS-232 to RS-485 interface converter. For convenience, the products of this series adopt the following number on the left in this guide, please affirm the number of your product.

Model I.  TLC485/9 (1RS-232 DB9F + 1RS-485 DB9M)

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Model II. TLC485/25 (1RS-232 DB25F + 1RS-485 DB25M)

## 【Panel Design】

➢ **Front view and side view**
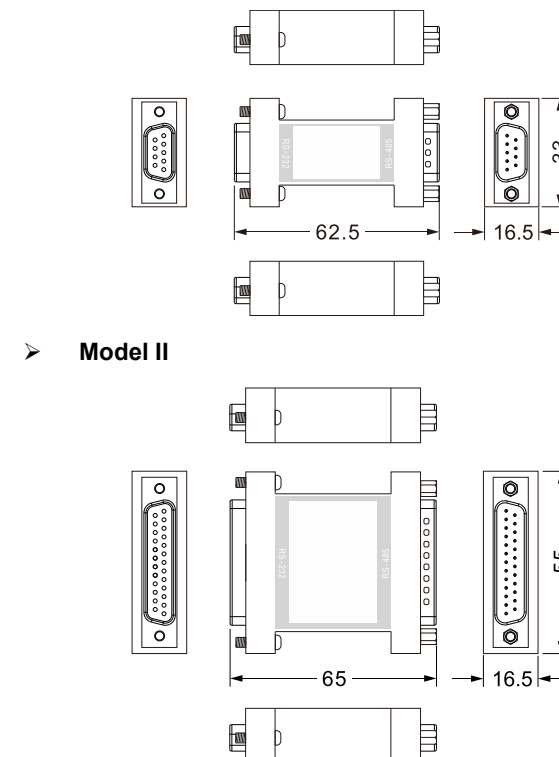


1

2

Model I



3

4

Model II

➢ **Top view**



1. RS-232 serial port DB9 Female
2. RS-485 serial port DB9 Male
3. RS-232 serial port DB25 Female
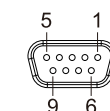4. RS-485 serial port DB25 Male

## 【Mounting Dimension】

Unit: mm
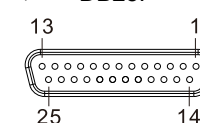
➢ **Model I**

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➢ **Model II**



## 【RS-232 serial port】

➢ DB9F



Model I of the RS-232 serial port adopts DB9F female connection mode, and the pin is defined as follows:

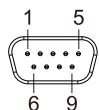| Pin No. | 2 | 3 | 5 |
|---|---|---|---|
| Pin Definition | TXD | RXD | GND |

➢ DB25F



Model II of the RS-232 serial port converter adopts DB25 female head connection mode, and the pin is defined as follows:

| Pin No. | 2. | 3. | 4、5 | 7. | 8、20 |
|---|---|---|---|---|---|
| Pin Definition | RXD | TXD | inner | GND | inner |

## 【RS-485 serial port】

➢ DB9M

Model I of the RS-485 serial port adopts DB9 male connection mode, additionally equipped with DB9 female head to 3-pin terminal block converter, and the pin is defined as follows:

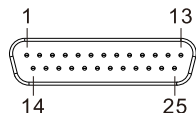| Pin No. | 1. | 2. | 5. |
|---|---|---|---|
| Pin Definition | 485- | 485+ | GND |

➢ DB25M

Model II of the RS-485 serial port adopts DB9 male connection mode, additionally equipped with DB25 female head to 3-pin terminal block converter, and the pin is defined as follows:

| Pin No. | 1. | 2. | 5. |
|---|---|---|---|
| Pin Definition | GND | 485+ | 485- |

**Note:**

The pin definition of RS-485 terminal is subject to the silk screen of the case.

## 【Specification】

| Standard | |
|---|---|
| Standard | EIA RS-232C，RS-485 |
| **Interface** | |
| RS-232 serial port | Model I: DB9 female head<br>Model II: DB25 female head |
| RS-485 serial port | Model I: DB9 male head，equipped with DB9 female head to 3-pin terminal block converter<br>Model II: DB9 male head，equipped with DB25 female head to 3-pin terminal block converter |
| **Transmission Speed** | |
| Baud Rate | 0-115200bps |

| Transmission distance: | |
|---|---|
| RS-232 | 15m |
| RS-485 | 1200m |
| **Power Supply** | |
| Input power supply | No external power supply is required, power is taken from the RS-232 serial port |
| **Power Consumption** | |
| Static power | ＜10mA |
| Dynamic power | ＜40mA |
| **Working Environment** | |
| Working temperature | -20~60℃ |
| Storage temperature | -25~85℃ |
| Working humidity | 5%～95% (no condensation) |