

# IT-485P5-TTL

## RS-485 to 5V TTL Converter (DB9)

### Features

1. 5VDC external power is necessary
2. Data Direction, auto-turnaround, no flow control is necessary
3. Plug-and-Play (Device is hot-pluggable)
4. Built-in surge protection, static protection and circuit protection



### Introduction

The Intellisystem IT-485P5-TTL is a bi-directional port powered RS-485 to 5V TTL converter in a 9 pin format. It can convert any standard full duplex RS-485 port to a 5V TTL signal and vice versa. The unit is powered from the RS-485 data lines. It also supports data direction auto-turnaround. Therefore, no external power or flow control is required. The data direction auto-turnaround automatically

enables the TTL driver when data is present on the RS-485 side making the device plug-and-play, requiring no software drivers. The IT-485P5-TTL has a DB9 male connector on the RS485 side or 5-way terminal block and either a DB9 male connector or 5-way terminal block on the TTL side. Separate terminal block is included in package.

### Specification

Standards: EIA RS-485 standard

RS-485 signal: D+, D-, GND

TTL signal: IN, OUT, GND

Baud rate: 300~115200bps

Transfer distance: 5V TTL side: 3m

RS-485 side: 1.2Km

Connectors: RS-485 Side: DB9 Male or 5 Way Terminal Block

5V TTL Side: DB9 Male or 5 Way Terminal Block

Port protect: 600W surge protection, 15KV ESD protection

#### Power

Power: 5V external power

#### Environment

Operating temperature: -10°C to 60°C

Storage temperature: -40°C to 85°C

Humidity: 5% to 95% (no condensation)

#### Appearance

Dimensions: 62.8mm×33.8mm×17.8mm

99.8mm×34.1mm×17.6mm (with terminal block)

Weight: 24g (with terminal block: 50g)

#### Warranty: 5 years

Approvals: FCC, CE, RoHS approvals

### Packing List

1. IT-485P5-TTL ×1
2. Separate terminal block (DB9F to 5 bit) ×2
3. User manual ×1

