IT-232P33-TTL

RS-232 to 3.3V TTL Converter（DB9）

INTRODUCTION:

The Intellisystem IT-232P33-TTL is a bi-directional port powered RS-232 to 3.3V TTL converter in a 9 pin format. It can convert any standard full duplex RS-232C port to a 3.3V TTL signal and vice versa. The unit is powered from the RS-232 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-232 side making the device plug-and-play, requiring no software drivers. The IT-232P33-TTL has a DB9 female connector on the RS-232 side and either a DB9 male connector or 5-way terminal block on the TTL side. Separate terminal block is included in package.

PACKING LIST:
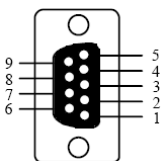
IT-232P33-TTL is shipped with following items.

1. TTL-232-33P×1

2. Separate terminal block (DB9F to 5 bit) ×1
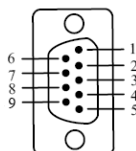
3. User manual ×1

FEATURES:

1. Port Powered: no 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

PINOUT CONFIGURATION:

RS-232 port adopt DB9F (Female), 3.3V TTL side adopt DB9M or 5 bit terminal block, no power supply Input.

DB9F (Female/hole)   DB9M (Male/needle)

RS-232 side:

Signal	DCD	DTR	DSR	RTS	CTS	TX	RX	GND
Pin#	1	4	6	7	8	2	3	5
Function	TIED			TIED		TX	RX	GND

3.3V TTL side:

Signal	NC	TTL IN	TTL OUT	NC	GND
Pin#	1	2	3	4	5
Function	NC	TTL IN	TTL OUT	NC	GND

SPECIFICATIONS:

Standards: EIA RS-232C standard

RS-232 signal: TX, RX, GND

TTL signal: IN, OUT, GND

Baud rate: 300~115200bps

Transfer distance: 3.3V TTL side: 3m

RS-232 side: no less than 5m

Connectors: RS-232 Side: DB9 Female and

3.3V TTL Side: DB9 Male or 5 bit Terminal Block

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

Power

Power: Port powered from RS-232 data lines

Current consumption: Less than 10mA

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

80.3mm×33.4mm×18.6mm (with terminal block)
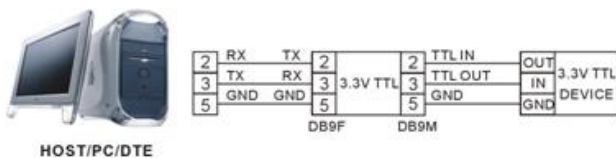
Material: Iron (shell)

Color: White

Weight: 24g (with terminal block: 36g)

Warranty: 5 years

Troubleshooting instructions:

Perform a loop back test on one IT-232P33-TTL converter. Tie signals TTL OUT to TTL IN of the TTL-232-33P. Attach the converter to a serial port on a PC and using HyperTerminal send a character from one and see if it echoes to the other. This will test both TTL input and TTL output functions.

APPLICATIONS:

Connecting the RS232 port to a 3.3V TTL Device

CERTIFICATIONS: