–IT-232D RS-232 Repeater

Introduction:

IT-232D is a kind of RS-232 system communication extending product. This type of product auto sense serial rate transmission rate, no external power needed, optic electric isolation 2500V, be applicable in tough environment. Transmission distance at 9,600bps is 2,000m, stable performance. IT-232D has 2500 volts of isolation twice the rating of most isolators to protect RS-232 equipment from lightning strikes, accidental high voltage shorts and ground loops.

Packing List:

IT-232D is shipped with following items.

1. IT-232D ×1
2. User manual ×1

Features:

1. Extend RS-232 signal 2Km
2. Plug-and-play
3. Port-powered, lowest consumption
4. Auto sense serial signal rate
5. Isolation serial device (RS-232)
6. 2500V isolation

Specifications:

Performance parameter

Standard: EIA RS-232 standard

RS-232 signal: TXD, RXD, GND

Working: Asynchronous, point to point

Transfer rate: 300-115200bps, auto sense serial signal rate

Isolate signal: TXD, RXD, GND

Transfer distance: 2Km (9600bps)

Isolation: 2500V

Port type: DB9F, DB9M (wire)

Power

Input powered: No power supply needed, powered from TXD, RTS, DTR signal in RS-232 port

Consumption: Static consumption less than 10mA, dynamic consumption less than 40mA

Environment

Working environment: -10°C to 60°C

Storage temperature: -40°C to 85°C

Relative humidity 5% to 95%

Appearance

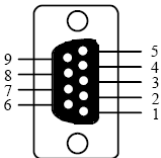L×W×H: 90mm×33mm×16.5mm (DB9)

Shell: Plastic

Color: White

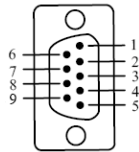Weight: —30g (DB9)

Warranty: 5 years

Approvals: FCC, CE, RoHS approvals

Pinout Configuration:

In the RS-232 end of IT-232D, DB9 female form interface is DCE, can connect PC or other DTE devices directly, DB9 male interface is for wire port

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

DB9F (Female/hole, DCE)

    2 TXD   **3** RXD   **4** DSR   **5** GND

    6 DTR   **7** CTS   **8** RTS

DB9M (Male/needle, wire port)

    2 R-   **3** T-   **4** T+   **5** R+

    6 RS   **7** CS   **8** DTR   **9** DSR

Applications:

Use the RS232 repeater IT-232D in pairs, can select 3/5/7 lines transmit RS-232 signal, the wire port adopt 4/6/8 lines to extend the RS232 data distance.
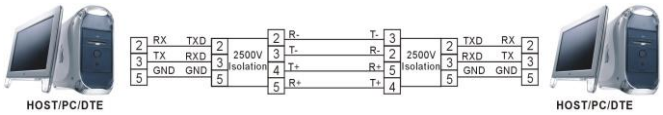

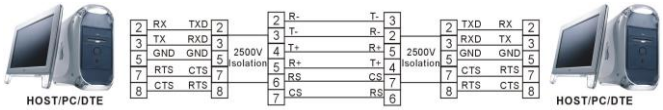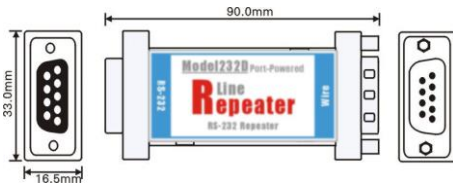**Figure 1: Extending the RS232 data distance for 4 lines**

Figure 2: Extending the RS232 data distance for 6 lines

Dimensions:

Certifications:

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