

485D

Single-ring RS-232/RS-485 Converter

一、 Usage

485D RS-232 to 2 port RS-485 converter prolongs RS-232 communication distance to more than 1.2 Km (9600 BPS). It can be used for remote multimachine communication network of PC or microcontroller. 485B can be used for single ring RS-485 net.

—— RS-232 to 2 redundant RS-485, making the RS-485 bus can split.

—— When one of the 2 RS-485 is corrupted, the other RS-485 is normal communication!

—— double RS-485 load —— 2 port RS-485 can be also used as 1 port RS-422

—— Single-ring RS-485 net is put forward by BOSHKA for the first time in the world.

-----It realizes more reliable RS-485 Communication.

2 Hardware Indtallation

485D is DB-9/DB-9 size. Female DB-9 is connected to RS-232 port.

485D Male DB-9 Pin description:

DB-9	1	2	3	4	5
description	A1	B1	GND	B2	A2

3 Performance specification

485D is port powered, its communication rate is up to 115200 BPS.

RS - 485 bus is generally not able to split, but 485B realizes it. 485B has 2 port RS-485. If the two RS- 485 ports are closed in distance, that is self-healing single-ring RS - 485 network.

5、 contour figure

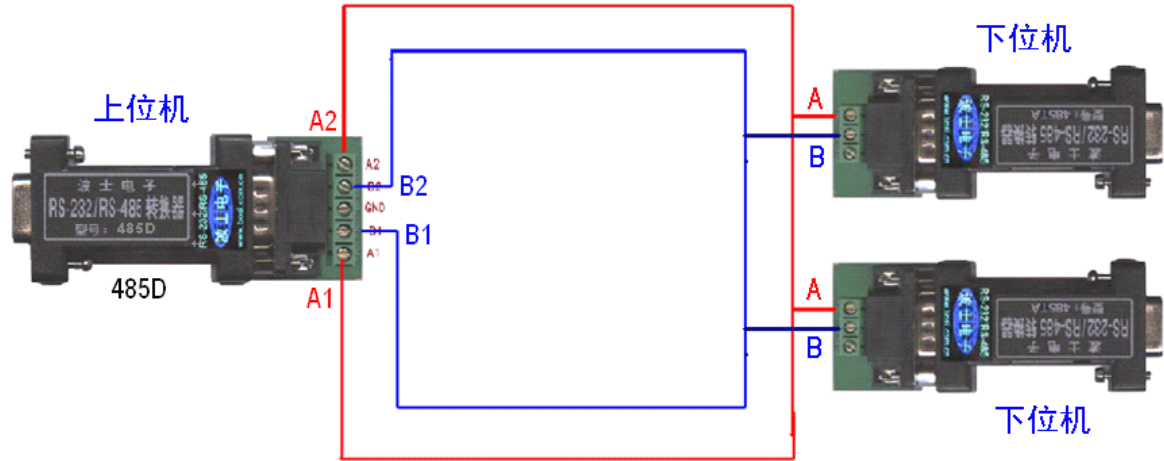


5 Single ring RS - 232 to RS - 485 converter

RS - 485 is general bus network, that is to say, the RS - 485 bus can be a straight line or curve, but can't be circular orbit. 485D has 2 port RS - 485, and they are closed at the far end. This RS - 485 network is self-healing. As shown in Figure, although there are two RS - 485 line (red line A and blue line B, GND is ignored), but they are actually one loop of the RS - 485, so called single ring. Self-healing characteristic is shown as: when one or two RS-485

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signal lines are disconnected, such as in the picture red line A or/and blue line B is disconnect, another part of line A of RS - 485 can still connected to 485D 's A1 or A2, and B to the 485D's B1 or B2.



Single-ring self-healing of RS - 485 network mode is put forward by BOSHICA for the first time in the world. It increases the reliability of RS - 485 bus communication. Another product HUB8485G also has the self-healing function of the RS - 485 network.