

Regulare failure and failure elimination

- 1, Communication failure
- A. Check the USB port with connecting right
- B. Check RS422/RS485 Output with connecting right
- C. Check the power of device
- D, Check the Terminal blocks work
- E, Check the indicator flicker when receiving
- F, Check the indicator flicker when sending
- 2. Data loss or data fault
- A. Check the data transmission utilization ratio with same format



Summarize

With the continuous development of the PC industry, USB interface is substituting the fold industrial and low speed PC interface, but there are so such important equipment still use the RS485/RS42 interface in the industrial environment. So many users have to use the USB to RS485 / RS422 converter to realize the data transfer between PC and exs885 / RS422 conjument.

DT-5019 is a universal converter of USB 2.0 to RS485/RS422, which is without addition power supply, compatible with USB, RS422, RS485 standards. It can convert USB signals to a balanced differential RS422 or RS485 signals. Each line has surge protection, and various surge voltage protections. The tiny capacitance distance guarantees RS422 / RS485 interface of high-speed transmission. RS422, RS485 connect by R345 and DB9 interface. Converter with zero delay automatic transceiver inside, unique //O circuit automatically control data flow direction, without any handshake signals (such as RTS, DTR, atc.) and Jumpers set realize full-duplex, half-duplex moder conversion, plug and palay. Easure the product fix for all existing communication software and hardware

DT-5019 converters for point-to-point, point-to-multi point reliable communications. Provides the point to more each converter allows connecting 32 R5422 or R5485 devices, data rate of 300 to 921600bps. The power and data flor indicator light will show fault if any breakdown. Support of communication has USB to R5422, USB to R5485.

Function

DT-5019 convertor supports four communication modes:

- l, Point-to-point / 4-line full-duplex
- 2. Point-to-multi point / 4-line full-duplex
- 3, Point-to-point / 2-line half-duplex
- 4. Point-to-multi point / 2-line half-duplex

When the convertor is working at full-duplex or half-duplex, needs to add a matched resistance to avoid reflects and disturbance of signal. (120Ω, 1/4署)

Installation and utilization

Please read carefully product manual before install DT - 5019 converter, then insert USB cable which attached to USB port. This product use USB/DB - 9, general connectorsfor input/output interface without jumpers, automatically identify RSV22 or RS485 consum -ication mode. Fit for twisted-pair cable or shielding wire connection, very convenient to Gisassemble. Point-to-point, point to more, full-duplex communication that connect four wire T/R +, T/R - and RXD +, RXD -, point-to-point, point to more, half-duplex communication that connect two lines T/R +, T/R -.

Performance parameter

1. Standards: Compliant with USB 2.0, downward compatibility, and standard RS422, RS485

2, USB signal: VCC, DATA+, DATA-, GND, FG

3, RS422 signal: T/R+, T/R-, RXD+, RXD, GND 4, RS485 signal: T/R+, T/R, GND

5. Working sode: asynchronous working, point-to-point or point-to-more, full duplex 4-line, half duplex 2-line

4-fine, half copyrox below 6, directional control: Using data flow automatic control and data transmission criterion

7, Band Rate: 300-921600bps, automatically detects serial signal rate

8, load capacity: support to more each converter allows connecting 32 RS422 interface RS485 or equipment

9, Transmission range: 1200meter of RS422/485, 5m of USB cable

10, Interface Protection: 600% surge protection, ± 15 KV Esd protection

11, Interface: USB A Male, DB9 Male

12, signal indication: red for power, green for data sending, yellow for data receiving

13, Transmission media: twisted-pair or shielded wire

14, Transmission rate: 921600bps at 300M, 38400bps at 600M, 9600bps at 1.2KM

15, Size: 1.2M length, convertor 66*39*20mm

16, Operating environment: -25°C to 70°C, relative humidity at 5% to 95%

17 Support Windows98/ME/2000/XP/Vista/7, Linux, MAC

Interface and signal:

DB9 Pin	Output signal	RS422 Full-duplex connection	RS485 Half-duplex connection
1	T/R+	TXD (A+)	RS485(A+)
	T/R-	TXD (8-)	RS485(B-)
	RXD+	RXD (A+)	N/A
	RXD-	RXD (B-)	N/A
	GND	GND	GND

DB9 PIN

