

E1-RS232/RS422/RS485 Converter**Overview:**

This interface converter is based on FPGA, providing 1Channel RS232/485/422 transmission on E1 interface. The product breaks through contradictions between traditional serial interface communication distance and communication rate, besides, it also can solve electromagnetic interference, ground ring interference and lightning damage. The device greatly improves reliability, security and confidentiality of data communication. It is widely used for various industrial control, process control and traffic control occasions, especially for Bank, and Power and other sectors and systems which have special requirements of electromagnetic interference environment. RS232/RS485/RS422 channel can transmit adaptable serial data asynchronously 115.2Kbps baud rate.

Photo:**Feature:**

- Based on self -copyright IC
- Support 3 interfaces RS232,RS422,RS485, you can only use one, cannot use the three interfaces at the same time
- Can automatically detect and control RS-485 data flow without handshake signals to control the flow direction of data
- Have the ability to automatically detect the baud rate of serial port signal
- Automatically test the reason of the device matt is that the device is power off, or E1 line is broken. And then indicate on the LED
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- Support SNMP Network Management
- Serial channel can transmit adaptable serial data asynchronously 300 Kbps-921.6Kbps baud rate
- Serial data multiplexing in E1 support ITU-T R.111 jumping coding mode
- Serial port interface lightning-protection reached IEC61000-4-5 (8/20μS) DM(Differential Mode): 6KV, Impedance (2 Ohm), CM(Common Mode): 6KV, Impedance (2 Ohm) standard

Parameters:◆ **E1 interface**

Interface Standard: comply with protocol G.703;
 Interface Rate: 2048Kbps±50ppm;
 Interface Code: HDB3;
 Impedance: 75Ω (unbalance), 120Ω (balance);
 Jitter tolerance: In accord with protocol G.742 and G.823
 Allowed Attenuation: 0~6dBm

◆ **Serial interface****Standard**

EIA/TIA-232 RS-232 (ITU-T V.28)
 EIA/TIA-422 RS-422 (ITU-T V.11)
 EIA/TIA-485 RS-485 (ISO/IEC8284)

Serial Interface

RS-422: TXD+, TXD-, RXD+, RXD-, Signal Ground
 RS-485 4 wires: TXD+, TXD-, RXD+, RXD-, Signal Ground
 RS-485 2 wires: Data+(Correspond TX+), Data- (Correspond TX-) , Signal Ground
 RS-232: RXD, TXD, Signal Ground

◆ **Working environment**

Working temperature: -10°C ~ 50°C
 Working Humidity: 5%~95 % (no condensation)
 Storage temperature: -40°C ~ 80°C
 Storage Humidity: 5%~95 % (no condensation)

Specification:

Model	Model Number: TS-E1-232-422-485
Functional Description	E1-RS232/422/485 Converter , provides three interfaces, Used in pairs , Serial port rate up to 115.2Kbps
Port Description	One E1 interfaces, 1 data interfaces (RS232 / RS485 / RS422)
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V

	Power consumption: $\leq 10W$
Dimension	Product Size: 216X140X31mm (WXDXH)

Application:

