**RS232 SERIAL TO RS485/422 CONVERTER P/N: 230449 DATASHEET**

Baud Rate: 120（MB/s）

To facilitate remote data communication among computers, external devices or intelligent instruments equipped with different standard serial interfaces, mutual conversion between standard serial interfaces is required. This converter supports RS-232C, RS-485 and RS-422 standards. It converts single-ended RS-232 signals into balanced differential RS-485 or RS-422 signals. It extends the RS-232 communication distance up to 1.2 km.

Powered by the “RS-232 charge pump” technology, it requires no external power supply and can obtain power without initializing the RS-232 serial port. It features built-in zero-latency auto transmit/receive switching. The I/O circuit automatically controls the data flow direction, with no handshake signals (e.g., RTS, DTR) required. No jumper setting is needed for switching between full-duplex (RS-422) and half-duplex (RS-485) modes.

This ensures programs written for RS-232 full-duplex or half-duplex operation can run directly on RS-422/485 without modification, compatible with existing operating software and interface hardware. The converter supports a baud rate range of 300–115.2 kbps.

It can be used to build point-to-point and point-to-multipoint remote multi-device communication networks between host controllers, or between host controllers and single-chip microcomputers/peripherals for multi-node response communication. It is widely applied in industrial automation control systems, one-card pass systems, access control systems, parking systems, self-service banking systems, public transit fare collection systems, canteen vending systems, staff attendance management systems, highway toll station systems, etc.

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**RS232 电荷泵驱动技术** RS-232 Charge Pump Powering Technology

No external power supply required; power is available without initializing the RS-232 serial port.

**内部带有零延时自动收发转换** Built-in Zero-Latency Auto TX/RX Switching

The I/O circuit automatically controls data flow direction. Handshake signals (such as RTS, DTR) are not required. Programs developed for RS-232 full-duplex / half-duplex can run on RS-422/485 without modification, compatible with existing operating software and interface hardware.

