

## TD-8310R 1000M RS-232 to Wireless Converter



### Description

TD-8310R 1000M RS-232 to Wireless Converter is a professional design for serial device wireless transmission in short-range. It uses a standard RS-232 port, can transmit signal 1000 meters transparently and effectively, so that users need not change the existing software and complete the communication. TD-8310R 1000M RS-232 to Wireless Converter uses a pair-wise working method, can make the serial signal transmission stable. It can be connected as point-to-point, point-to-multipoint, multipoint-to-point, allowing users to build large-scale systems serial wireless network.

### Feature

- Line of sight and reliable transmission distance can reach 1000m, use of FSK modulation.
- Carrier frequency 433 MHz, can also be ordered 315M/868M/915M other carrier frequency; ISM band, no need to apply for.
- Provide 8 channels, if the user needs, can be expanded to 16-channel.
- Interface: TTL/RS-232 optional by user.
- Interface Format: 8N1/8E1/8O1.
- Transceiver, half duplex, sending and receiving data conversion automatically, just send and receive the data from interface, conversion time is short.
- Can be used for point-to-point, point-to-multipoint, multipoint-to-point communications and many other combinations.
- Data transparent transmission, can transmit long data frames.
- 3 kinds of power-saving modes: hardware wake-up, serial wake up, air wake up.
- Automatically filter out the false data generated by air, long-term reliability is good, very low failure rate.

### Specification

- Transmission distance :1000M(sight)
- Operating frequency: 433Mhz
- Number of channels: 8
- Transmit Power: 100mW
- Device power consumption: power 100mw
- Receiver sensitivity:-121dBm
- Emission current: <100mA
- Receive Current: <20mA
- Sleep current: 1uA
- Channel rate: 1200/2400/4800/9600/19200/38400Bit/s users can set up
- Serial Rate: 1200/2400/4800/9600/19200/38400Bit/s users can set up
- Send and receive time: <10ms
- Data Format: 8E1/8N1/8O1
- Power Supply:
  - RS-232/RS-485: 5±0.5V
  - TTL: 2.7~3.6V, 3.6~5.5V DC
- Operating Temperature: -20oC-65oC
- Operating Humidity: 10%~90% relative humidity, non-condensing
- Dimension: 44mm × 27mm × 8mm (excluding antenna)