

GMTCNT LORA WIRELESS COMMUNICATION

MODULE

USER MANUAL

Model: G-LORA-485-D10

The G-LORA-485-D10 is an industrial-grade wireless data transceiver module operating in the 410-490 MHz frequency range with 1W power and high stability

The module utilizes LoRa spread spectrum technology and features an RS-485 communication protocol. It employs a high-efficiency cyclic error correction algorithm, providing high coding efficiency and strong error correction capability. This significantly enhances the module's interference immunity and high operational stability

Product Features

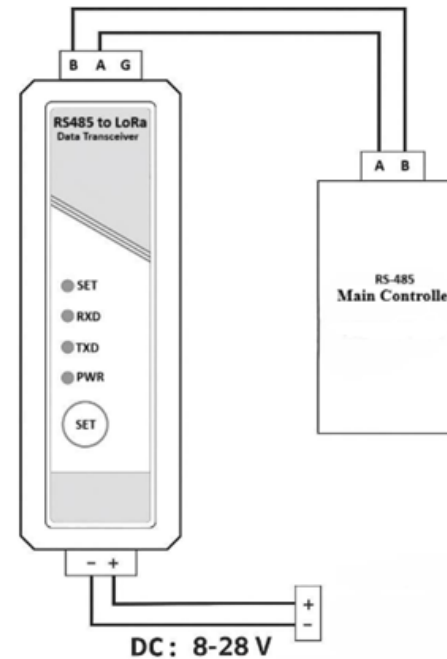
Serial Port Interface: RS-485
Modulation: LoRa
Wireless Channels: 81 selectable wireless channels
Frequency Range: 410-490 MHz
Serial Baud Rate: Adjustable within common rates from 300 to 115200 bps
Air Data Rate: 8 adjustable levels (1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 50 / 62.5 Kbps)
Input Voltage: 8-28 VDC
Transmission Distance: Wireless transmission up to 10,000 meters
Transmission Modes: Transparent, Relay, Master-Slave modes
Receiver Sensitivity: -129dBm
Transmission Power: 4 adjustable levels (21 / 24 / 27 / 30 dBm)
Dimensions: 90mm x 28.2mm x 62mm
Storage Environment: -40 °C to +125 °C
Operating Environment: -40 °C to +85 °C, Relative Humidity 10% to 90%

Hardware Specifications

LED Indicator Descriptions:

PWR (Power) LED: Lights up continuously when the device is powered on
TXD LED: Data transmission indicator for serial communication (blinks during data transmission)
RXD LED: Data reception indicator for serial communication (blinks during data reception)

Communication Port Connection:



Configuring Device Settings

Download and run the G-LORA-485-D10 computer interface software. Connect to the computer using a GCM485-USB converter. Configure the relevant serial port settings and establish the serial connection. Configuration: Through the program, many settings such as the device's baud rate, serial port connection settings, and channel information can be configured.