



LoRa Terminal

LR-4-20MB



I/O



Remote Management



Low Power



Cloud Platform



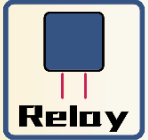
RS232



RS485



PLC



Relay

Introduction

F8L10T LoRa data transmission terminal is a wireless data transmission terminal based on LoRa spread spectrum technology. At the same time using LoRa wireless transmission technology for short-distance data transmission. It has been widely used on M2M fields, such as electric power, Intelligent traffic, wireless metering, industrial automation, telemetry, water supply, environment protection, weather, etc.



Industrial-grade Design

- ▶ High-powered industrial LoRa chip and MCU
- ▶ Support low power consumption mode, including multi-sleep and trigger modes to reduce the power dissipation farthest
- ▶ Housing: iron, providing IP30 protection
- ▶ High-powered industrial 32 bits CPU
- ▶ Power range: DC 5~36V



Stability & Reliability

- ▶ Support hardware and software WDT
- ▶ RS232/RS485/RS422 port: 15KV ESD protection
- ▶ Power port: reverse-voltage and overvoltage protection
- ▶ Antenna port: lightning protection(optional)



Standard & Convenience

- ▶ Adopt terminal block interface, convenient for industrial application
- ▶ Support standard RS232 and RS485(or RS422) port that can connect to serial devices directly
- ▶ TTL logic level RS232 interface can be customized, ADC interface can be customized
- ▶ Support intellectual mode, enter into communication state automatically when powered
- ▶ Provide management software for remote management
- ▶ Support several work modes
- ▶ Convenient configuration and maintenance interface



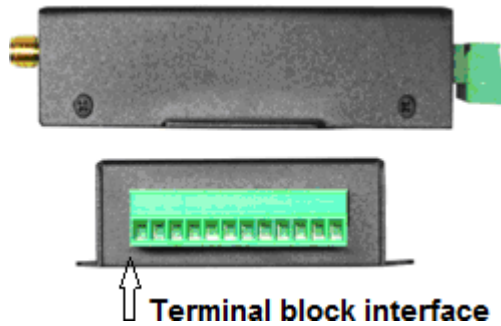
High Performance

- ▶ Support LoRa wireless short-range data transmission capabilities, with self-organizing network capabilities
- ▶ Relay routing and terminal device functionality
- ▶ Network capacity: 65000 nodes (typical number of 300)
- ▶ Send mode flexible: Broadcast send or destination address send mode optional
- ▶ Supply 5 I/O channels, can achieve the analog input of the 3 channels, the digital input and output of the 2 channels: compatible with the pulse count function of the 2 channels

Product Specification

LoRa Specification	
Items	Contents
Communication	
Frequency Band	Support a variety of frequency bands around the world (433/470/780/868/915 MHz)
Bandwidth	6 level adjustable (0.3 、 0.6 、 1.0 、 1.8 、 3.1 、 5.5Kbps)
TX Power	20dBm(100mW) 30dBm(1W)
RX Sensitivity	-140dBm
Interfaces	
Items	Contents
Serial	1 RS232 port and 1 RS485(orRS422) port, 15KV ESD protection Data bits: 8 Stop bits: 1, 2 Parity: none, even, odd, space, mark Baud rate: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps
Indicator	"Power", "ACT", "Online"
Antenna	LoRa : Standard SMA female interface, 50 ohm, lightning protection(optional)
Power	Terminal block interface, reverse-voltage and over voltage protection

LoRa Terminal



Terminal block interface



LoRa Antenna interface

Power Supply

Items	Contents
Standard Power	DC 12V/0.5A
Power Range	DC 5~36V

Physical Characteristics

Items	Contents
Housing	Iron, providing IP30 protection
Dimensions	91x58.5x22 mm
Weight	205g

Physical Characteristics

Items	Contents
Operating Temperature	-40~+85°C (-40~+185°F)
Storage Temperature	-40~+125°C (-40~+257°F)
Operating Humidity	95% (unfreezing)