

#### 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)
- 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



Standard & Convenience

### LoRa Terminal F8L10T





- Support Lora wireless short-range data transmission capabilities, with selforganizing 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)
Indoor/Urban Communication Distance	F8L10T-N:1km F8L10T-E:2km
Outdoor/Visual Communication Distance	F8L10T-N:3.5km F8L10T-E:11.5km
Bandwidth	6 level adjustable(0.3、0.6、1.0、1.8、3.1、5.5Kbps)
TX Power	F8L10T-N:20dBm(100mW) F8L10T-E:30dBm(1W)
RX Sensitivity	-140dBm
Interfaces	
Items	Contents
	1 RS232 port and 1 RS485(orRS422) port, 15KV ESD protection
Serial	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, lighting protection(optional)
Power	Terminal block interface, reverse-voltage and over voltage protection
	Torrinnar brook interfaces, feveres voltage and ever voltage protection

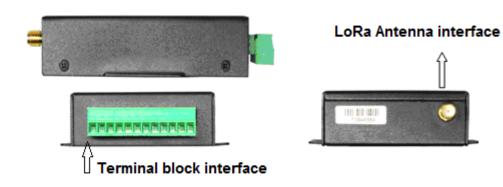


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## **LoRa Terminal F8L10T**





Power Supply					
Items	Contents				
Standard Power	DC 12V/0.5A				
Power Range		1	DC 5~36V		
Consumption					
Items	Working Condition		Consumption		
	@12 VDC	Sleep	3.1 ~ 3.2mA		
		Receive data	13.2 ~ 13.4mA		
F8L10T-N		Transmit data	60.3 ~ 61.2mA		
FOL IUI-N		Sleep	7.3 ~ 7.4mA		
	@5 VDC	Receive data	26.1 ~ 26.2mA		
		Transmit data	107.3 ~ 115.1mA		
	@12 VDC	Sleep	3.1 ~ 3.3mA@12 VDC		
		Receive data	13.2 ~ 13.4mA@12 VDC		
F8L10T-E		Transmit data	110-125mA@12 VDC		
FOLTUT-E		Sleep	7.2 ~ 7.4mA@5 VDC		
	@5 VDC	Receive data	26.3 ~ 26.5mA@5 VDC		
		Transmit data	210 ~ 213mA@5 VDC		
Physical Characteristics					
Items	Contents				
Housing	Iron, providing IP30 protection				
Dimensions	91x58.5x22 mm				
Weight	205g				



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# **LoRa Terminal F8L10T**



<b>Physical Characteristics</b>	
Items	Contents
Operating Temperature	-40~+85°C (-40~+185°F)
Storage Temperature	-40~+125°C (-40~+257°F)
Operating Humidity	95% ( unfreezing)

### **Order Information**

Products	Description
F8L10T-N	LoRa data transmission terminal (Without PA)
F8L10T-E	LoRa data transmission terminal (With PA)



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