

Item no.: F8L10T

F8L10-T - F8L10T - LoRa Terminal (1x RS232 & RS485, 5x I/Os)

from **123,97 EUR**

Item no.: F8L10T
shipping weight: 0.20 kg
Manufacturer: Four-Faith



Product Description

Four-Faith F8L10T - LoRa Terminal (1x RS232 & RS485, 5x I/Os)

The F8L10T LoRa terminal is a wireless data transmission terminal based on the LoRa Spread Spectrum Communication technology. It is using the LoRa network to provide wireless data transmission function for its users.

The product uses a high-performance industrial-grade LoRa solution with the embedded real-time operating system as the software support platform. It provides RS232 and RS485 (or RS422) interfaces at the same time, and can be connected to the serial devices directly to achieve data pass-through function. The terminal has a low-power design, the minimum power consumption is less than 5 mA (at) 12 V DC. It provides 5x I/O to implement functions such as digital input and output, analog input, pulse counting, etc.

The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart home, finance, mobile POS terminals, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical, telemetry, agriculture, forestry, water, coal, petrochemical and other related fields.

LoRa Communication

- Frequency bands: Supports various frequency bands in most of the countries
- (433/470/780/868/915 MHz)
- Indoor/urban communication distance: 1 km
- Outdoor/line-of-sight communication distance: 3.5 km
- Transmit power: 20 dBm (100 mW)
- Communication rate (theoretically): 6 levels adjustable (0.3, 0.6, 1.0, 1.8, 3.1, 5.5 Kbps)
- Sensitivity: -140 dBm

Hardware

- CPU: Industrial-grade 32-bit processor
- Flash: 128 KB
- RAM 16 KB

Interface

- Serial port: 1x RS232 and 1x RS485 (RS422) interface with built-in 15 KV ESD
- Data bits: 8 bits
- Stop bits: 1 or 2 bits
- Error detection: None, even parity, odd parity
- LED indicators: Power, communication, LoRa
- Antenna interface: Standard SMA female antenna interface, characteristic impedance: 50 ohms
- Power interface: Terminal block interface with built-in phase-reversal and over-voltage protection

Power

- Standard input voltage: DC 12 V / 0.5 A
- Accepted voltage range: DC 5~36 V

Physical Properties

- Casing: Metal casing, IP30 protection level, suitable for most industrial control applications
- Dimensions: 91 x 58.5 x 22 mm (excluding antennas and mountings)
- Weight: 205 g

Others

- Operating temperature: -40°C ~ +85°C (-40°F ~ +185°F)
- Storage temperature: -40°C ~ +125°C (-40°F ~ +257°F)
- Relative humidity: 95% (non-condensing)

Specifications

**Scan this QR code to
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All details, up-to-date
prices and availability

