# LoRaWAN Asset Monitoring Terminal

## F-LT300

**F-LT300-L**
资产监测终端

Low Power | Analysis &Report | Remote Management | Cloud Platform

## Introduction

**F-LT300** is an Asset Monitoring Terminal that supports the LoRaWAN™ standard. This product is based on a three-axis accelerometer to monitor the vibration of items in the storage environment and realizes the wireless alarm function through LoRa technology. The product can be used in security systems, mainly for the monitoring of valuables in places such as smart warehousing, smart construction sites, sauce and wine digital platforms, smart oil fields, and smart factories.

### Industrial-grade Design

▶ Protection level: waterproof, dustproof

▶ Low power consumption design

▶ Long battery life (5-6 years)

### Stability & Reliability

▶ Battery powered; no wiring required

▶ Wireless transmission, convenient for networking

▶ Reliable transmission, strong floor penetration

### Standard & Convenience

▶ Support LoRaWAN™ standard, system application can be expanded

▶ Working frequency：868-915MHz

▶ Easy to install, 3M glue paste

### High Performance

▶ Three-axis acceleration detection, high accuracy

▶ Multi-level sensor sensitivity can be set

▶ With anti-dismantling, vibration, tilt, displacement alarm

▶ Regular self-check and report power and equipment status

## Product Specification

| LoRa Parameters | |
|---|---|
| **Items** | **Contents** |
| **Band** | 470-510 MHz, 850-935 MHz |
| **LoRa Protocol** | LoRa, LoRaWAN® |
| **Transmit Power** | 13 dBm (MAX 20dBm) |
| **Floor Penetration Ability** | 2-3 floor (13 dBm) |
| **Sensitivity** | -142dBm@SF12 |
| **Power Consumption** | |
| **Items** | **Contents** |
| **Deep Sleep Current** | < 22uA |
| **Send Data: Current** | Heartbeat: 45mA @13dBm<br>Alarm: 80mA @13dBm |
| **Receive Data Current** | 5.6mA |
| **Over-discharge Protection Voltage** | ≤3.0V |
| **Voltage Undervoltage Prompt** | ≤3.3V |
| **Physical Properties** | |
| **Items** | **Contents** |
| **Dimensions** | 83 x 58 x 34mm<br>(Excluding antenna and mounting parts) |
| **Battery Working Life** | More than 5 years (2.6Ah data twice a day) |
| **Others** | |
| **Items** | **Contents** |
| **Operating Temperature** | -10~+55ºC (14~+131ºF) |
| **Relative Humidity** | 10% - 95% (non-condensing) |

## Topology



Wine jar

Large-scale machinery and equipment

Large-scale server

Various valuable assets

F8L10GW/F8926

Platform

LoRa

4G
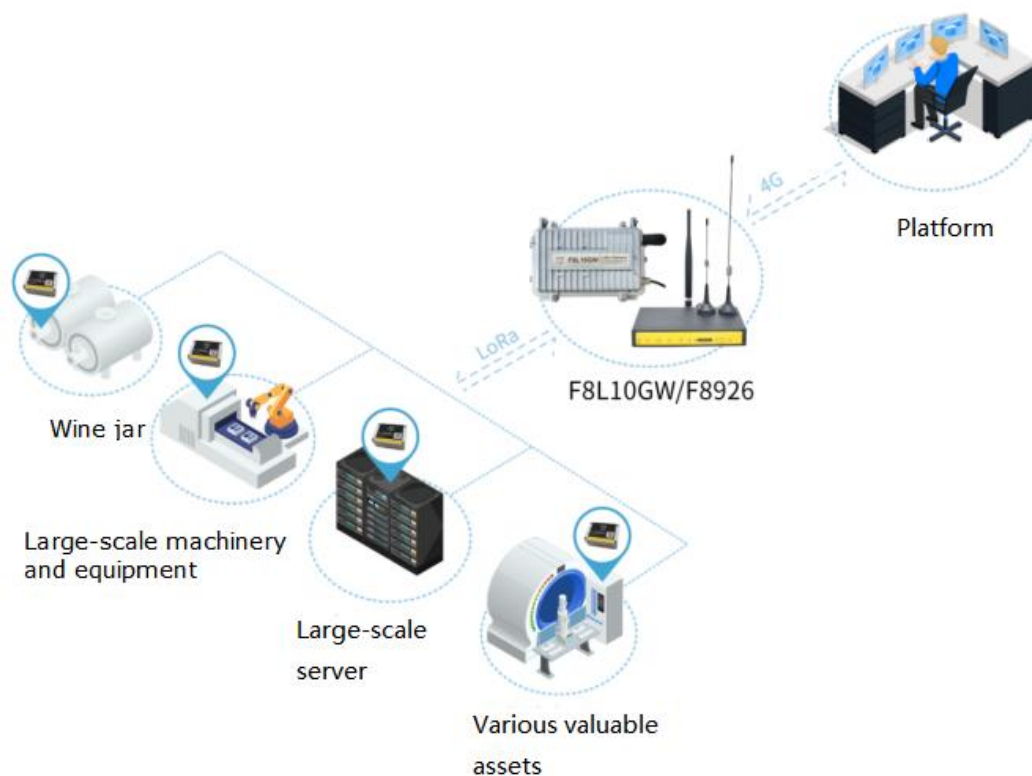
## Order Information

| Products | Frequency |
|---|---|
| F-LT300-L | 470-510 MHz |
| F LT300-H | 850-935 MHZ |