

# LoRaWAN Module

## LA66 LoRaWAN Module

Easy to use

MCU +SX1262 SoC

Stable / Mature LoRaWAN Stack

Small Size, Low Power Consumption

LoRaWAN or Peer to Peer LoRa Protocol



## OVERVIEW:

Dragino LA66 is a small wireless LoRaWAN module that offers a very compelling mix of long-range, low power consumption, and secure data transmission. It is designed to facilitate developers to quickly deploy industrial-level LoRaWAN and IoT solutions. It helps users to turn the idea into a practical application and make the Internet of Things a reality. It is easy to create and connect your things everywhere.

LA66 is a ready-to-use module that includes the [LoRaWAN v1.0.3 protocol](#). The LoRaWAN stack used in LA66 is used in more than 1 million LoRaWAN End Devices deployed world widely. This mature LoRaWAN stack greatly reduces the risk to make stable LoRaWAN Sensors to support different LoRaWAN servers and different countries' standards. External MCU can use AT command to call LA66 and start to transmit data via the LoRaWAN protocol.

Each LA66 module includes a [world-unique OTAA key](#) for LoRaWAN registration.

Besides the support of the LoRaWAN protocol, LA66 also supports [open-source peer-to-peer LoRa Protocol](#) for the none-LoRaWAN application.

LA66 is equipped with [TCXO crystal](#) which ensures the module can achieve stable performance in extreme temperatures.

## Features:

- Support LoRaWAN v1.0.3 protocol
- Support peer-to-peer protocol
- Ultra-long RF range
- World-wide unique OTAA keys.
- AT Command via UART-TTL interface
- Firmware upgradable via UART interface
- SMD Antenna pad and i-pex antenna connector
- Available in different frequency LoRaWAN frequency bands.
- TCXO crystal to ensure RF performance on low temperature

## Specifications:

- CPU: 32-bit 48 MHz
- Flash: 256KB
- RAM: 64KB
- LoRa Rx current: <9 mA
- I/O Voltage: 3.3v
- Input Power Range: 1.8v ~ 3.7v
- Power Consumption: < 4uA.
- High sensitivity: -148 dBm
- LoRa Tx Current: <90 mA at +17 dBm, 108 mA at +22 dBm
- Frequency Range: 150 MHz ~ 960 MHz
- Maximum Power +22 dBm constant RF output
- Temperature:
  - Storage: -55 ~ +125 °C
  - Operating: -40 ~ +85 °C
- Humidity:
  - Storage: 5 ~ 95% (Non-Condensing)
  - Operating: 10 ~ 95% (Non-Condensing)

## Order Info:

Part Number: LA66-XXX

- XXX: Frequency Bands, options: EU433, CN470, EU868, IN865, KR920, AS923, AU915, US915, PP (Peer to Peer LoRa Protocol)