

# **2.4GHz LoRa Modem PLS100WF User Guide**

## Revision History

<i><b>Who</b></i>	<i><b>Version</b></i>	<i><b>Date</b></i>	<i><b>Comment</b></i>
Arron H	1.0	Oct28, 2019	Initial release

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## 1.Introduction

The PLS100WF, a 2.4GHz LoRa modem, is a low-power, long-range, high-speed industrial IoT device .

## 2. Hardware Specification

The hardware of PLS100WF specifications are as follows.

<b>MCU</b>	* ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz
<b>RF Transceiver</b>	* LoRa Technology RF modulation * Frequency: 2412 MHz ~ 2472 MHz * Modulation: GFSK
<b>Internal Memory</b>	512 KB Flash, 64 KB SRAM
<b>Data Rate</b>	up to 200 kbps (LoRa)
<b>RF Tx Power</b>	6.1 dBm(max)
<b>DC Input Voltage</b>	+ 3.6 VD
<b>Power Supply</b>	19000mAh Lithium Battery
<b>Antenna</b>	2.4GHz Internal Antenna
<b>Operating Temp.</b>	-30°C ~+70°C
<b>Dimension</b>	70 X 99 X 58 mm

The explanation of each part of PLS100WF as follows.



- ① Main body
- ② Band hole: Band hole for Fix
- ③ Cover screw
- ④ Cover

### 3. Component

Component	EA
Main Body	1
Screw driver	1

## 4. FCC

### INFORMATION TO THE USER

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

## 5. A/S

- Company : PLNetworks
- Add : #210, HANA EZ TOWER, 10, Seongnam-daero 43beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- Web : <http://www.plnetworks.co.kr>