文档类型（xxx: yyyyyyyyy）	不公开文档	密级：受控

LND868E Module

User manual

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Introduction

This product is LoRaWAN communication module, please read the product manual carefully before use.
Wish you a happy use!

Copyright

Please pay attention to environmental protection and do not discard this product at will. This product cannot be treated as daily household garbage. If the product has expired, please recycle it through a reasonable recycling system.

Warning!

●This product can be connected to 3.3V DC power supply only.
●This product should be used in a ventilated environment, and the housing should not be sealed for heat dissipation.
●When using, place the product on a smooth, non-conductive surface and do not touch conductive materials.
●Do not connect an unverified device to a DIP pin as this may damage the product and result in the product being disqualified.

Announcements

●Do not allow the product to be soaked with water, and do not place the product in a humid environment or on conductive objects.
●Do not operate the product at high temperatures or near heat sources. Use the product at normal temperatures.
●Exercise caution when using the circuit board and connectors to avoid mechanical or electrical damage.
●If possible, wear ESD clothes and an ESD bracelet.
●Please handle the circuit board carefully. Only pinch the edge of the board to reduce the risk of electrostatic discharge damage.
●Each time before using the development board, touch the metal or other parts around the development board to release static electricity.
●Avoid burning chips by touching them directly!
●To perform physical operations on the development board, power off the development board. Ports except USB and network ports do not support hot swap. Do not plug or remove the development board when it is powered on.

Revision	Date	Author	Verifier	Revision Note
1.0	2023.12.01	Zhengjsh	zhangfg	LND868E Module User manual

FCC Caution:

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

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.

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 20cm between the radiator& your body.

NOTE: 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.

KDB 996369 D03 statements

2.2 List of applicable FCC rules:

The module complies with FCC Part 15.247.
FCC ID: Z5J-REACHLND915 on User manual and on the external of the packaging.

2.3 Summarize the specific operational use conditions

The module has been certified for Potable applications. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

2.4 Limited module procedures

The module is not a limited module.

2.5 Trace antenna designs

Not applicable

2.6 RF exposure considerations

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

2.7 Antennas

The EUT use a permanently attached antenna
which is unique.

2.8 Label and compliance information

The host system using this module, should have label in a visible area indicated the following texts: "Contains FCC ID: Z5J-REACHLND915

2.9 Information on test modes and additional testing requirements

When testing host product, the host manufacture should follow FCC KDB Publication 996369 D04 Module Integration Guide for testing the host products. The host manufacturer may operate their product during the measurements. In setting up the configurations, if the pairing and call box options for testing does not work, then the host product manufacturer should coordinate with the module manufacturer for access to test mode software.

2.10 Additional testing, Part 15 Subpart B disclaimer

The module without unintentional-radiator digital circuity, so the module does not require an evaluation by FCC Part 15 Subpart B. The host shoule be evaluated by the FCC Subpart B.

2.11 Note EMI Considerations

host manufacture is recommended to use D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties

2.12 How to make changes

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system. According to the KDB 996369 D02 Q&A Q12, that a host manufacture only needs to do an evaluation (i.e., no C2PC required when no emission exceeds the limit of any individual device (including unintentional radiators) as a composite. The host manufacturer must fix any failure