

## How to link OLN868 to LoRa Server

### Switch on the ONL868

Use a magnet to turn off or on the device. Also, to put the device in operation mode.

Holding the device to the surface of the enclosure

- 2 seconds – turn on the device
- 2-5 seconds – put the device into programming mode
- 15 seconds – turn off the device

Use the [ONL868 LoRa tool](#) to get the device information.

Use the TTL cable provided in your first purchase to connect the OLN868 device to your PC.

- Device EUI
- Application EUI
- Encrypted Key (Make sure you convert tax to hex (<https://www.rapidtables.com/convert/number/ascii-to-hex.html>))

COM: COM18

Load Firmware

Sored Values

Device EUI: 3030303130373037

Pulse count: 0

LoraWan Settings

Application EUI: 70B3D57ED003E052

Encryption Key: ABCDEFGHJKLMNOP

Enc Key Hex: 4142434445464748494A4B4C4D4E4F5

Report Interval: 0 Hours 59 Minutes

Sample time: 10 Seconds

Message Throttle: 12 Seconds

Trigger Settings

High Time (Sec): 10

Low Time (Sec): 10

The value has to equal or exceed continuously for this time

Trigger Hysteresis Settings

Low Low Value: 0

High Low Value: 0

Low High Value: 1024

High High Value: 1024

Pulse Count Settings

Force TX Count: 500 Pulses

Pressure Settings

Max Pressure (kPa): 100 kPa

Read Config

Write Config

Device read OK

## ASCII Text to Hex Code Converter

Enter ASCII/Unicode text string and press the *Convert* button:

From To

Text Hexadecimal

Paste text or drop text file

ABCDEFGHIJKLMN

Character encoding

ASCII

Output delimiter string (optional)

Space

41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50

Log into your server account

- Go to the application
- Add application
- Add information
- Click create an application

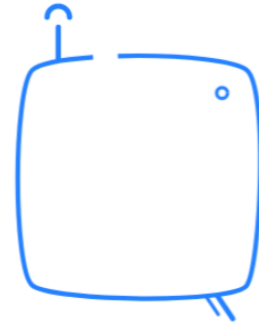
# Welcome back, Miyelani Kubayi! 🙌

Walk right through to your applications and/or gateways.

Need help? Have a look at our [Documentation](#) or [Get support](#).



Go to applications



Go to gateways

Applications (5)

Search

+ Add application

ID	Name	End devices	Created at
mipotdevtest	mipot dev kit	1	27 days ago
rejeeedevices	Rejeee Devices	6	Jul 25, 2022
oln868t	Sales Training	1	Jan 24, 2022
oln868w	OLN868W Application	4	Aug 30, 2021
ewan-test-devices	Ewan Test Application	10	Jul 29, 2021

## Add application

Application ID \*

on1868testingpro

Application name

testing procedure

Description

Client demonstration

Optional application description; can also be used to save notes about the application

Create application

Add keys from the LoRa Tool to add the device.

- Click add devices
- Select add manually
- Click register

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testing procedure

testing procedure ID: on1868testingpro

No recent activity

0 End devices 1 Collaborator 0 API keys

General information

Application ID	on1868testingpro
Created at	Sep 20, 2022 15:52:12
Last updated at	Sep 20, 2022 15:52:12

Live data

15:52:12 on1868test... Create application

End devices (0)

Search Import end devices **+ Add end device**



testing procedure

Overview

End devices

Live data

Payload formatters

Integrations

Collaborators

API keys

General settings

Applications > testing procedure > End devices > Register from The LoRaWAN Device Repository


## Register end device

[From The LoRaWAN Device Repository](#)

[Manually](#)

### 1. Select the end device

Brand  \*

Type to search... 

Cannot find your exact end device? [Get help here](#) and [try manual device registration](#).

### 2. Enter registration data

Please choose an end device first to proceed with entering registration data

From The LoRaWAN Device Repository [Manually](#)

testing procedure

- Overview
- End devices
- Live data
- Payload formatters
- Integrations
- Collaborators
- API keys
- General settings

Frequency plan <sup>?</sup>\*

Europe 863-870 MHz (SF9 for RX2 - recommended) | v

LoRaWAN version <sup>?</sup>\*

LoRaWAN Specification 1.0.3 | v

Regional Parameters version <sup>?</sup>\*

RP001 Regional Parameters 1.0.3 revision A | v

Show advanced activation, LoRaWAN class and cluster settings v

DevEUI <sup>?</sup>\*

30 30 30 31 30 37 30 37  0/50 used

AppEUI <sup>?</sup>\*

70 B3 D5 7E D0 03 E0 52

AppKey <sup>?</sup>\*

41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50

End device ID <sup>?</sup>\*

oln-pro-demo

This value is automatically prefilled using the DevEUI

< Hide sidebar

## LoRa Node connected to the server

If the gateway is connected to the server, the node will connect to the server via the gated.

You will start getting LoRa payload from the node.



testing procedure

Applications > testing procedure > End devices > oln-pro-demo

Overview

End devices

Live data

Payload formatters

Integrations

Collaborators

API keys

General settings

## oln-pro-demo

ID: oln-pro-demo

↑ n/a ↓ n/a • Last activity 3 minutes ago

Overview Live data Messaging Location Payload formatters Claiming General settings

### General information

End device ID: oln-pro-demo

Frequency plan: Europe 863-870 MHz (SF9 for RX2 - recom...

LoRaWAN version: LoRaWAN Specification 1.0.3

Regional Parameters version: RP001 Regional Parameters 1.0.3 revisio...

Created at: Sep 20, 2022 16:14:32

### Activation information

### Live data

See all activity →

↑ 16:14:57 Forward join-accept message DevAddr: 26 08 88 47

⌂ 16:14:56 Accept join-request DevAddr: 26 08 88 47

⊕ 16:14:32 Create end device

### Location

Change location settings →