



The Testcenter facility 'LoRa® Test Lab' within IMST GmbH is recognized by the LoRa® Alliance for testing in accordance to the LoRaWAN® Specification V1.0.4

Testreport for Certification by Similarity according to LoRaWAN[®] (V1.0.4 EU868)

for the Device

"IOTSU L3 AQ01"

for the Customer

"Small Data Garden Oy"

Jens Lerner Yavuz Turan

16th April, 2024

pruefbericht eng.doc/01.07.10\V3.2\YT

Administrative Summary

Location: IMST GmbH, Test Centre, Kamp-Lintfort, Germany

Responsible Test Engineer: Yavuz Turan, Jens Lerner

Subject: Test of Conformance to LoRaWAN® Specification V1.0.4 (EU868)

Company and Contact Information:

Small Data Garden Oy

Markus Madetoja

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Finland

Checked Device: IOTSU L3 AQ01

<u>Hardware version:</u> v1 <u>Firmware version:</u> v2.3

Type and Version of used Stack: Stackforce, V4.7.0 Version

Original End-device identifier: IOTSU L3 TH02

LoRa Device Class: A

LoRaWAN Specification version: V1.0.4

Certification requirements: LoRaWAN 1.0.4 End Device Certification Requirements V1.6.1

<u>Frequency band(s):</u> 868 MHz
<u>Test Equipment:</u> LCTT v3.12.0_R1
Type of Certification by Similarity:

Case 2: Certification of an end-device variant from a certified end-device

Variant device differences to the referenced certified device:

- Same LoRa transceiver
- Same LoRaWAN protocol SW version
- Same MCU Core
- Same Clock design and implementation

Brief description of the differences between the primary and the variant device Sensors.

Date: 16th April, 2024

The Test Report, No. 6240328 has the following conclusion:

The device fulfils the requirements.

Responsibility: /1/

Yavuz Turan

Test Engineer Quality Engineer

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Jens Lerner



Applied Methods of Measurement

1.1 Protocol Testing according to LoRaWAN® specification V1.0.4 (Class A device for EU868)

<u>Certification By Similarity Test Results By the Manufacturer:</u>

Join tests with various parameters: **PASS**

Device Status Request: **PASS**New Channel Request: **PASS**DI Channel Request: **PASS**

RX Parameter Setup Request: **PASS** RX Timing Setup Request: **PASS** TX Parameter Setup Request: **PASS**

Link ADR Request: PASS

Supported Optional Features:

Adaptive Data Rate (ADR) Yes SF7BW250 (DR6) Yes FSK50 (DR7) Yes

Additional Tests By The Manufacturer:

Retransmission Back-Off for OTA devices only: PASS

Remarks: None

Result: The device passed the test without limitations.



