

LoRaWAN Certification Test Report

Date: 27th of July 2016

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Sampo Mäkelä

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Tested Device: P-NUCLEO-LRWAN1

STM32NucleoL0/Semtech SX1272MB2DAS

Firmware version: V1.0.0

Hardware version: V1.0.0

End-device identifier: MB1136 C-03 2154301157 (ABP), MB1136 C-03 2154301567 (OTA)

LoRa Device Class: A

LoRaWAN Specification version: V1.0

Certification requirements: LoRa End Device Certification EU Version1.1

Frequency band(s) tested: 868 MHz

Test Equipment:

Test Software Version: 1.1.7

Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0

Packet forwarder software version 2.1.0

Test Result: **PASS**

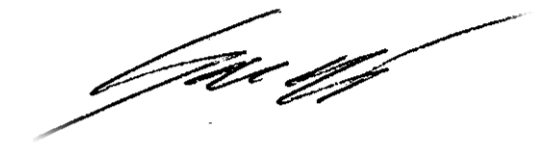
Detailed Test Results:

Test Mode activation (Activation by Personalization): **PASS**
Test Mode activation (Over the Air Activation): **PASS**
Test application functionality: **PASS**
Packet Error Rate RX2 SF12: **PASS**
Cryptography: **PASS**
Downlink Window Timing: **PASS**
Frame Sequence Number: **PASS**
Device Status Request: **PASS**
New Channel Request: **PASS**
Confirmed packets: **PASS**
RX Parameter Setup Request: **PASS**
RX timing setup request: **PASS**
Link ADR Request: **PASS**
Packet error rate RX1 Window: **PASS**
Packet error rate RX2 Window: **PASS**

Supported Optional Features:

Adaptive Data Rate (ADR): **Yes**
SF7, BW250 kHz: **Yes**
FSK, 50 kbps: **Yes**

Remarks: None.



Sampo Mäkelä, Espotel Oy