LoRaWAN Certification Test Report

Date: 18\textsuperscript{rd} of May 2016

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Jukka Kinnunen

Company and Contact Information:

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Tested Device: RM186

Firmware version: 18.4.0.26

Hardware version: 1

End-device identifier: LEN DVT 38, DevEUI: 0706050403020100

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:

\begin{itemize}
  \item Test Software Version: 1.1.5.1
  \item Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0
  \item Packet forwarder software version 2.1.0
\end{itemize}

Test Result: \textbf{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: No

Remarks: None.

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Jukka Kinnunen, Espotel Oy