ESPOTEL
Advanced Embedded Solutions

LoRaWAN Certification Test Report

Date: 7th of March 2016

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Petteri Aimonen

Company and Contact Information:

> Multitech Systems Inc.
> David Smith
> 2205 Woodale Dr
> 55112, Mounds View, MN
> USA

Tested Device: MultiConnect mDot

Firmware version: 1.0.4

Hardware version: Rev B

End-device identifier: 008000000000ABB8

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: 1.1.5
> Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0
> Packet forwarder software version 2.1.0

Test Result: **PASS**

LoRa® Alliance

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.

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Petteri Aimonen, Espotel Oy