LoRaWAN Certification Test Report

Date: 30th of September, 2016

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Sampo Mäkelä

Company and Contact Information:

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

David Smith
dsmith@multitech.com

Tested Device: MultiConnect xDot

Firmware version: V2.0.14

Hardware version: Rev D

End-device identifier: 00000001 (ABP), 008000004000072 (OTA)

LoRa Device Class: A

LoRaWAN Specification version: V1.0.1

Certification requirements: LoRa End Device Certification EU Version1.2

Frequency band(s) tested: 868 MHz

Test Equipment:

Test Software Version: 1.1.8
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
- Mac Commands: 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: No
- FSK, 50 kbps: No

Remarks: None.

Sampo Mäkelä, Espotel Oy