

Test Report on

TRX Module 32001353

Test Report Reference: MDE_MIPOT_1601_01

Date: 2017-04-20

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1 Administrative Data

1.1 Project Information

Project Name: MDE_MIPOT_1601
Responsible for Testing and Report: Abdellah Ahakki
Date of Report: 2017-04-20
Testing Time Frame: 2017-04-12 to 2017-04-12

1.2 Applicant Information

Company Name: MIPOT S.p.A.
Address: Via Corona, 5
Cormons (GO)
Italy
Contact Person: Igor Felice
Phone: +39 0481630200
Fax: +39 0481 62387
Email: ifelice@mipot.com

1.3 Test Laboratory Information

The following list shows all Locations and Test Resources involved in the generation of test results:

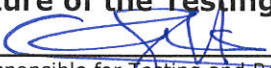
7layers DE, Ratingen, Germany

Company Name: 7layers GmbH
Address: Borsigstr. 11
40880 Ratingen, Germany
Contact: Michael Albert
Email: Michael.Albert@7layers.com
Laboratory accreditation no: DAkKS D-PL-12140-01-00

Test Resource Details

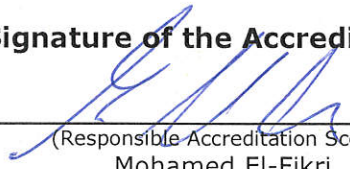
ID	Name	Responsible	Accreditation Info
1	7layers LoRa Compliance Test Environment		

1.4 Signature of the Testing Responsible



(Responsible for Testing and Report)
Abdellah Ahakki

1.5 Signature of the Accreditation Responsible(s)



(Responsible Accreditation Scope)
Mohamed El-Fikri

2 Test Object Data

2.1 Object Under Test (OUT) Description(s)

The following section lists all Objects Under Test (OUTs) involved during testing.

Object Under Test: 32001353

Description: Transceiver module operating in the 868MHz
Type / Model: TRX Module

Manufacturer:

Company Name: MIPOT S.p.A.
Address: Via Corona, 5
Cormons (GO)
Italy
Contact Person: Igor Felice
Phone: +39 0481630200
Fax: +39 0481 62387
Email: ifelice@mipot.com

For further details see Annex.

2.2 Sample Description(s)

Sample Name: DE1248000ad02

Object Under Test: 32001353
Description: TRX Module
Serial Number: 0x00000116
Hardware Version: Rev.1
Software Version: FW32001353_100
Code: ad02

For further details see Annex.

3 Results

3.1 Applicable Test Specification(s)

Test Specification:	LoRa End Device Certification EU v1.2
Date / Version:	Nov 28, 2016 / v1.2
Description:	LoRa alliance End Device Certification Requirements for EU 863-870 MHz ISM Band devices, v1.2

3.2 Result Statistics

Test Specification	Total	Result Verdict			Pass Ratio
		Pass	Fail	Declaration	
LoRa End Device Certification EU v1.2	16	16	0	0	100.00 %

Note: Pass, Declaration, Fail and Inconclusive results are regarded for the Pass Ratio calculation. Pass and Declaration are summarized as Pass results. Fail and Inconclusive are summarized as Fail results. All are summarized as Total count (Pass + Declaration + Fail + Inconclusive). The Pass Ratio is calculated by the number of Pass results divided by the number of Total results. All other results like Error or Not Tested are not regarded for the calculation.

3.3 Result Summary

Test Specification: LoRa End Device Certification EU v1.2

Test Case Name / Description Test Condition	Verdict	Date	Sample/Setup
TC_MAC_EU_001 / Test Mode activation activation mode = Activation-by-Personalization	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_002 / Test application functionality	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_003 / Over The Air Activation	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_004 / Packet Error Rate RX2 SF12	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_005 / Cryptography	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_006 / Downlink Window Timing	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_007 / Frame Sequence Number	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_008 / Device Status Request	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_009 / MAC Commands	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_010 / New Channel Request	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_011 / Confirmed packets	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_012 / RX Parameter Setup Request	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_013 / RX timing setup request	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_014 / Link ADR Request	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_015 / Packet Error Rate Rx1 Window	Passed	2017-04-12	DE1248000ad02
TC_MAC_EU_016 / Packet Error Rate Rx2 Window	Passed	2017-04-12	DE1248000ad02

4 Annex

4.1 Object Under Test (OUT) Features

Supported Features for Object Under Test: 32001353

Name	Mnemonic
LoRa End Device Certification EU v1.2	
Band 868 MHz	Support of Band 868 MHz
data rate SF7BW250	Support of data rate SF7BW250
data rate FSK50	Support of data rate FSK50
OTAA	Support of optional over-the-air feature
ABP	Support of ABP
ADR	Support of optional adaptive data rate control feature
JOIN	allow to trigger join request on port 224

4.2 Sample DE1248000ad02 Extra Information Parameters

The following documents have been attached to Sample definitions as supporting documentation.

Sample Name: DE1248000ad02



Object Under Test

End of Test Report