Test Report on

SAGEMCOM E&T SAS
SICONIA C2 AT868
253714322

LoRa Test Report

Test Report Reference: MDE_SAGEMCOM_1601_01

Date: 2017-03-08
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1 Administrative Data

1.1 Project Information

Project Name: MDE_SAGEMCOM_1601
Responsible for Testing and Report: Abdellah Ahakki
Date of Report: 2017-03-08
Testing Time Frame: 2016-10-05 to 2016-10-06

1.2 Applicant Information

Company Name: SAGEMCOM E&T SAS
Address: 250 Route de l'Empereur
92848 Rueil Malmaison cedex
France
Contact Person: Marc Le Gourrierec
Phone: +33 (0)1 57 61 10 82
Email: marc.legourrierec@sagemcom.com

1.3 Test Laboratory Information

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

1.4 Signature of the Testing Responsible

[Signature]
(Responsible for Testing and Report)
Abdellah Ahakki

1.5 Signature of the Accreditation Responsible(s)

[Signature]
(Responsible Accreditation Scope)
Mohamed El-Fikri

Test Report Reference: MDE_SAGEMCOM_1601_01
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: SICONIA C2 AT868
Description: Motion & temperature sensor
Type / Model: 253714322

Manufacturer:
Company Name: SAGEMCOM E&T SAS
Address: 250 Route de l'Empereur
92848 Rueil Malmaison cedex
France
Contact Person: Marc Le Gourrierec
Phone: +33 (0)1 57 61 10 82
Fax: -
Email: marc.legourrierec@sagemcom.com

For further details see Annex.

2.2 Sample Description(s)
Sample Name: DE1217000ab02

Object Under Test: SICONIA C2 AT868
Description: Motion & temperature sensor
Serial Number: 9165130010018
Hardware Version: 2
Software Version: 1
Code: ab02

For further details see Annex.
3 Results

3.1 Applicable Test Specification(s)

<table>
<thead>
<tr>
<th>Test Specification</th>
<th>Date / Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoRa End Device Certification EU v1.2</td>
<td>Aug 30, 2016 / v1.2</td>
<td>LoRa alliance End Device Certification Requirements for EU 863-870 MHz ISM</td>
</tr>
</tbody>
</table>

3.2 Result Statistics

<table>
<thead>
<tr>
<th>Test Specification</th>
<th>Total</th>
<th>Result Verdict</th>
<th>Pass</th>
<th>Fail</th>
<th>Declaration</th>
<th>Pass Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoRa End Device Certification EU v1.2</td>
<td>16</td>
<td></td>
<td>16</td>
<td>0</td>
<td>0</td>
<td>100.00 %</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Test Case Name / Description</th>
<th>Verdict</th>
<th>Date</th>
<th>Sample/Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC_MAC_EU_001 / Test Mode activation mode = Activation-by-Personalization</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_002 / Test application functionality</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_003 / Over The Air Activation</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_004 / Packet Error Rate RX2 SF12</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_005 / Cryptography</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_006 / Downlink Window Timing</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_007 / Frame Sequence Number</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_008 / Device Status Request</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_009 / MAC Commands</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_010 / New Channel Request</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_011 / Confirmed packets</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_012 / RX Parameter Setup Request</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_013 / RX timing setup request</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_014 / Link ADR Request</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_015 / Packet Error Rate Rx1 Window</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
<tr>
<td>TC_MAC_EU_016 / Packet Error Rate Rx2 Window</td>
<td>Passed</td>
<td>2016-10-06</td>
<td>DE1217000ab02</td>
</tr>
</tbody>
</table>
4  Annex

4.1 Object Under Test (OUT) Features

Supported Features for Object Under Test: SICONIA C2 AT868

<table>
<thead>
<tr>
<th>Name</th>
<th>Mnemonic</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoRa End Device Certification EU v1.2</td>
<td></td>
</tr>
<tr>
<td>Band 868 MHz</td>
<td></td>
</tr>
<tr>
<td>Data rate FSK50</td>
<td></td>
</tr>
<tr>
<td>OTA</td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td></td>
</tr>
<tr>
<td>JOIN</td>
<td></td>
</tr>
</tbody>
</table>

4.2 Additional Documentation for Samples

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

Sample Name: DE1217000ab02

Object Under Test

End of Test Report