

# LoRaWAN Certification by Similarity Report

End-device certification using a certified module

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Location: Etteplan Oyj, Jyväskylä Test Laboratory, Finland

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Target device: **ARF8123AA**  
Firmware version: 1.00.07  
Hardware version: 1.0  
LoRa Device Class: A

Certified reference module: ARF8134AA  
LoRaWAN Specification version: v1.0.1  
Certification requirements: LoRa End Device Certification EU Version 1.5  
Frequency band(s) tested: 868 MHz

Test Software Version: 1.1.10  
Gateway Model: Semtech IOT SX1301 Starter Kit  
Gateway Software Version: 3.1.0  
Packet Forwarder Software Version: 2.1.0

Reference module test result: **PASS**

## Detailed reference module test results

Test Mode activation (ABP): **PASS**  
Test Mode activation (OTAA): **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.



Sandro von Brandenburg, Etteplan Oyj