

# LoRaWAN Certification Test Report

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Location: Etteplan Oyj, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Sandro von Brandenburg

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Tested Device: iM881A

Firmware version: v2.0

Hardware version: iM881A

End-device identifier: 70:B3:D5:8F:F0:00:00:0C

LoRa Device Class: A

LoRaWAN Specification version: v1.0.2

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

Test Result: **PASS**

## Detailed 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: **Yes**

Remarks: None.



Sandro von Brandenburg, Etteplan Oyj