



ThingPark Wireless Device Interoperability Test Report

Manufacturer:	RAKwireless
Product:	Module
Part number:	RAK811
Hardware version:	1.0
Software version:	2.0.2.2
LoRaWAN:	1.0.2
Band:	AS 923
Class:	A
DevEUI:	30373465B359201

Gateway:	Kerlink LRR Version 2.2.11
Network Server Activity Version:	Version 1.8.12

Date:	2017/11/29
Test operator:	C. C. Sun
Test result:	PASS
Test plan version:	1.5

Test Report No:	00000127 - 00000853
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TPIT	PASS	FAIL	NOT APPLICABLE
TPIT 1.0 – IEEE Addressing compliance	X		
TPIT 1.1 – Activation By Personalization	X		
TPIT 1.2 – Over-The-Air Activation	X		
TPIT 2.1 – Uplink message compliance	X		
TPIT 2.2 – Downlink message compliance	X		
TPIT 2.3 – Application payload encryption			X
TPIT 3.1 – Default Uplink RF channel usage	X		
TPIT 3.2 – Adaptive Data Rate	X		
TPIT 3.3 – Deactivated ADR (Mobility)	X		
TPIT 4.1 – MAC Command RXTimingSetup	X		
TPIT 4.2 – MAC Command RXParamSetup	X		
TPIT 4.3 – MAC Command DevStatus	X		
TPIT 4.4 – MAC Command NewChannel / DIChannel	X		
TPIT 4.5 – MAC Command over port 0	X		
TPIT 4.6 – MAC command TxParamSetup	X		
TPIT 5.1 – Class C Receive window			X
TPIT 5.2 – Class C Multicast for downlink			X
TPIT 6.1 – ADR behavior	X		
TPIT 6.2 – FCnt management	X		
TPIT 7.1 – Radio Frequency testing			X

Remarks:

- DevEUI range specified in TPIT 1.0.1 belongs to the Beijing LTHonway Technology Co., Ltd which is the former entity of Shenzhen RAK wireless Technology Co. Ltd.
- Manual at+join=otaa is required to test re-join for TPIT 1.2.2
- Not easy to pass TPIT 4.4 due to timeout seen in Rx window
- TPIT 3.2.3 is tested and passed by RAKwireless (Reference: 2017111102092)
- Manual at+dr=3 (or at+set_config=dr:3) is required to pass TPIT 4.5.1