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Laboratoire de Moirans
Z.I. Centr'Alp
170, Rue de Chatagnon
38430 MOIRANS - FRANCE

GENERAL INFORMATION

FCCID: DWNBEECONPCB

1.1. Product description

Product Overview
Smartkiz PCBA

1. Purpose

This document gives a brief overview of the Smartkiz PCBA sold as a module.

2. History

Version	Date	Author	Update
X01	27/03/2020	RMA	Original version

Text (or referenced document) still to be finalized.
Text modified since the previous release.

3. Approvals

Version	Date	Approved by	Signatures
X01	27/03/2020		

4. Scope of Smartkiz PCBA

The Smartkiz is a key platform of the Overkiz Home automation offer. It acts as a gateway between the internet world (IP), RTS and Zigbee wireless protocol used in the home automation offer.

The Smartkiz PCBA, sold as a module, allows customer to upgrade their own products to give them the same functions and capabilities as the Smartkiz.

4.1. Usages

- Interior use environment
- Home-level or room-level usage
- Unconnected capabilities
- Customer-dependent out-of-the-box capabilities

4.2. Supported Protocols

The Smartkiz supports the following protocols (with frequency bands):

- RTS (433MHz) Transmit only
- Zigbee 3.0 (2.4GHz)
- WiFi (2.4GHz)

4.3. Target Countries

The Smartkiz PCBA project is the result of a request from Somfy US teams.

Hence, the target zone is today limited to north America (USA and Canada).

However, new requests from European or Asian division could lead to new certifications for new target countries.

As a reminder, here are the target countries that have been defined for the Smartkiz:

- Priority from **1** (highest) to **3** or more (lowest)
- N.P.** (Not Planned), *i.e. marketing choice*
- N.A.** (Not Applicable), *i.e. technical incompatibility*

PRS000267
Product Overview
Smartkiz PCBA
X01
3/6

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1.2. Tested System Details

Equipment information:

Type:	<input checked="" type="checkbox"/> ZIGBEE		<input type="checkbox"/> RF4CE	
Number of Channel:	16			
Spacing channel:	5MHz			
Channel bandwidth:	2MHz			
Antenna Type:	<input checked="" type="checkbox"/> Integral	<input type="checkbox"/> External	<input type="checkbox"/> Dedicated	
Antenna connector:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Temporary for test	
Transmit chains:	1			
	Single antenna			
	Gain: 0dBi			
Beam forming gain:	No			
Type of equipment:	<input checked="" type="checkbox"/> Stand-alone	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Combined	
Ad-Hoc mode:	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
Duty cycle:	<input checked="" type="checkbox"/> Continuous duty	<input type="checkbox"/> Intermittent duty	<input type="checkbox"/> 100% duty	
Equipment type:	<input checked="" type="checkbox"/> Production model		<input type="checkbox"/> Pre-production model	
Operating temperature range:	Tmin:	<input type="checkbox"/> -20°C	<input type="checkbox"/> 0°C	<input checked="" type="checkbox"/> -10°C
	Tnom:	20°C		
	Tmax:	<input type="checkbox"/> 35°C	<input type="checkbox"/> 55°C	<input checked="" type="checkbox"/> 40°C
Type of power source:	<input type="checkbox"/> AC power supply	<input checked="" type="checkbox"/> DC power supply		<input type="checkbox"/> Battery
Operating voltage range:	Vnom:	<input type="checkbox"/> 230V/50Hz	<input checked="" type="checkbox"/> 5Vdc	

Equipment information:

Type:	RTS			
Number of Channel:	1			
Spacing channel:	None			
Channel bandwidth:	100 kHz			
Channel tested:	F _{nom} : 433.42 MHz			
Antenna Type:	<input checked="" type="checkbox"/> Integral	<input type="checkbox"/> External	<input type="checkbox"/> Dedicated	
Antenna connector:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Temporary for test	
Transmit chains:	<input checked="" type="checkbox"/> 1		<input type="checkbox"/> 2	
Receiver chains	None			
Type of equipment:	<input checked="" type="checkbox"/> Stand-alone	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Combined	
Duty cycle:	<input type="checkbox"/> Continuous duty	<input checked="" type="checkbox"/> Intermittent duty	<input type="checkbox"/> 100% duty	
Equipment type:	<input checked="" type="checkbox"/> Production model		<input type="checkbox"/> Pre-production model	
Operating temperature range:	Tnom:	20°C		
Type of power source:	<input type="checkbox"/> AC power supply	<input checked="" type="checkbox"/> DC power supply		<input type="checkbox"/> Battery
Operating voltage range:	Vnom:	<input type="checkbox"/> 120V/60Hz	<input checked="" type="checkbox"/> 5 Vdc	

Antenna Characteristic			
Antenna assembly	Gain (dBi)	Frequency Band (MHz)	Impedance(Ω)
1	0	433.42	50

CHANNEL PLAN	
Channel	Frequency (MHz)
Cnom	433.42

Hardware information		
Software (if applicable):	V. :	KIZOS: kizos-P000503-2019.6.4-14i.tar



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1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or/and ANSI C63.10, FCC Part 15 SubPart 15C.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.4. Test facility

Tests have been performed: **February 19 to February 21, 2020**

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 or/and ANSI C63.10.

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55032/CISPR32 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.