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# NOTIFIED BODY OPINION

N°: 143230-689430

Version : 02

Established under Article 3 and Article 10 (Annex IV) of Directive 1999/5/EC of 9 March 1999.

NB Identification Number: 0081

Certification program : R&TTE Certification Rules

## Applicant & Manufacturer

NXP Semiconductors  
2 Esplanade Anton Philips  
14906 - Caen Cedex 9  
France

## Apparatus under test

↔ Product JN517x-DK005  
↔ Trade mark NXP  
↔ Model KIT 1 Raspberry Pi 2 model B V1.1; NFC controller board model OM5577; USB Dongle FCC ID: OYR-COMFAST88 and USB Dongle model: JN5179-001-U00

## Composition of document

5 pages

## Document issued on

December 12<sup>th</sup>, 2016

LCIE declares that, the listed product complies with the essential requirements of the R&TTE Directive 1999/5/EC according on the review of the technical construction file established by the manufacturer (Annex IV)

Signature on behalf of Notified Body by :

  
G. LEMONNIER  
Certification Officer  


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## PUBLICATION HISTORY

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Modification</b>
01	November 10 <sup>th</sup> , 2016	Stéphane PHOUDIAH	Creation of the document
02	December 12 <sup>th</sup> , 2016	Stéphane PHOUDIAH	Reference update



• **Technical Documentation:**

- Application Form: R&TTE Certification Application Form\_ KIT1.pdf
- User Manual: JN-UG-3121-JN517x-DK005.pdf
- Photo: DK005\_Pictures.pdf
- Block Diagram: Block\_diagram\_NXP.pdf
- Declaration of module integration: Manufacturer Declaration for Radio Module Integration\_JN5179\_U00.pdf & Manufacturer Declaration for Radio Module Integration\_PN7120S.pdf
- Test reports: See reference test reports in the notified body opinion below

• **General Equipment information:**

- Type of the equipment:  Stand-alone equipment  Plug-in radio device  Combined equipment

- Temperature range: Tmin:  -20°C  0°C  °C  
 Tnom:  20°C  
 Tmax:  +35°C  55°C  °C

- Test source voltage: Vmin:  207V/50Hz  Vdc  
 Vnom:  230V/50Hz  Vdc  
 Vmax:  253V/50Hz  Vdc

- Type of power source:  Battery (Alkaline/Lithium-Ion/Lead acid/Other)  Internal power supply  
 External power supply  Car Charger

- Operating frequency range:

Technology	Frequency Band	RF Power
Zigbee	2400MHz to 2483.5MHz	9.6dBm
RFID	13.56MHz	-3.2dBμA/m at 3m



- **Equipment information for the KIT 1 Raspberry Pi 2 model B V1.1; NFC controller board model OM5577; USB Dongle FCC ID: OYR-COMFAST88 and USB Dongle model:JN5179-001-U00 Zigbee Radio Part:**

Frequency band:	[2400 – 2483.5] MHz		
Sub-band REC7003:	Annex 3 (a)		
Spectrum Modulation:	<input checked="" type="checkbox"/> DSSS		
Modulation Type	O-QPSK		
Data Rate	0.25Mbps		
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 checked="" type="checkbox"/> Yes		<input type="checkbox"/> No
Transmit chains:	<input checked="" type="checkbox"/> 1		
	Single antenna		
	Gain: 1 dBi		
Beam forming gain:	No		
Receiver chains	1		

- **Equipment information for the KIT 1 Raspberry Pi 2 model B V1.1; NFC controller board model OM5577; USB Dongle FCC ID: OYR-COMFAST88 and USB Dongle model:JN5179-001-U00 RFID Radio Part:**

Frequency band:	<input checked="" type="checkbox"/> [13.553–13.567]MHz	<input type="checkbox"/> [125]kHz	<input type="checkbox"/> Other:[-]MHz
RF mode:	<input checked="" type="checkbox"/> Transmitter	<input type="checkbox"/> Transceiver	<input type="checkbox"/> Receiver <input type="checkbox"/> Standby
Type:	<input checked="" type="checkbox"/> RFID	<input type="checkbox"/> EAS	<input type="checkbox"/> WPT <input type="checkbox"/> Other:
Bandwidth:	<input type="checkbox"/> Narrowband (ISO15693, ISO18000-3...)		<input checked="" type="checkbox"/> Wideband (ISO14443, NFC...)
Product class § 7.1.4	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Receiver classification § 4.1.1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3
Antenna type:	<input type="checkbox"/> External:		<input checked="" type="checkbox"/> Internal:



- **Conformity to the essential requirements**

Our opinion is established in accordance with the essential requirements of the Directive 1999/5/EC on radio equipment and telecommunications equipment and the mutual recognition of their conformity and based on:

Validation the technical documentation and following test reports (Annex IV)

Essential requirements	R&TTE Harmonised standards	Test reports reference	Compliance
Electrical Safety Article 3.1a	EN 60950-1: 2006 + A11:2009 + A1:2010 +A12:2011 + A2:2013	LCIE Test report N°143230-689429 Version 02	Yes
EMC Article 3.1b	EN 301 489-17 V2.2.1 EN 301 489-3 V1.6.1 EN 301 489-1 V1.9.2 EN 61000-3-2 (2014) EN 61000-3-3 (2013)	LCIE Test report 143230-689428 Version 02	Yes
Health Article 3.1a	EN 50364 (2010) EN 62369-1 (2009) EN 62479 (2010)	LCIE Test report N°140004-681716C Version 02 EMITECH Test report RC-030-PTC-14-106282-1-A (00)	Yes
Radio spectrum Article 3.2	ETSI EN 300 330-2 V1.8.1 ETSI EN 300 330-1 V1.6.1 ETSI EN 300 330-2 V1.5.1 ETSI EN 300 330-1 V1.7.1 ETSI EN 300 328 V1.9.1	LCIE Test report N°140004-681716C Version 02 N°143230-689427C Version 02 N°143230-689427D Version 02 EMITECH Test report RR-030-PTC-14-106282-1A (00)	Yes

- **Validity:**

The validity of this present statement of opinion is limited to the products having been the subject of this type-examination and will be called in question as of least modification of the product concerned. Any evolution of the Directive 1999/5/EC Directive of March, 9th 1999 is likely to also call into question its validity.

The notified body number of **LCIE (0081)** must be placed on the identification plate of the product.