



LCIE



Accreditation
N°5-0014
Scope available on
www.cofrac.fr

NOTIFIED BODY OPINION

N°: 143230-689438

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
KIT2 JN517X-DK005 NXP composed by 2 Module JN5179-001-M10 and Module JN5179-001-M16; a Generic expansion board DR1199 A lighting/sensor expansion board DR1175 and a carrier main board OM15028
↵ Model

Composition of document

5 pages

Document issued on

December 12th, 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 :

CHRISTOPHE LEMONNIER
Certification Officer



This document shall not be reproduced, except in full, without the written approval of the LCIE.

LCIE

Laboratoire Central des Industries Electriques
Une société de Bureau Veritas

33, Av du Général Leclerc
92266 Fontenay Aux Roses
FRANCE

Tél : +33 1 40 95 60 60
contact@lcie.fr
www.lcie.fr



PUBLICATION HISTORY

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



• **Technical Documentation:**

- Application Form: R&TTE Certification Application Form_ KIT2.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_M10.pdf & Manufacturer Declaration for Radio Module Integration_JN5179_M13.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 5Vdc
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	10.4dBm (Module M10)
Zigbee	2400MHz to 2483.5MHz	10.6dBm (Module M13)
RFID	13.56MHz	-20.57dBμA/m at 10m



- **Equipment information for the KIT2 JN517X-DK005 NXP composed by 2 Module JN5179-001-M10 and Module JN5179-001-M16; a Generic expansion board DR1199 A lighting/sensor expansion board DR1175 and a carrier main board OM15028 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 (M10 Module)	<input checked="" type="checkbox"/> External (M13 Module)	<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 M10 module : 1.8 dBi	Gain M13 module : 2 dBi	
Beam forming gain:	No		
Receiver chains	1		

- **Equipment information for the KIT2 JN517X-DK005 NXP composed by 2 Module JN5179-001-M10 and Module JN5179-001-M16; a Generic expansion board DR1199 A lighting/sensor expansion board DR1175 and a carrier main board OM15028 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	Test report N°143230-689437 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)	Test report N°143230-689436 Version 02	Yes
Health Article 3.1a	EN 50364 (2010) EN 62369-1 (2009) EN 62479 (2010)	Test report N°143230-689434A Version 02 N°143228-689533A Version 01 N°143228-689533B version 01	Yes
Radio spectrum Article 3.2	ETSI EN 300 330-2 V1.8.1 ETSI EN 300 330-1 V1.6.1 ETSI EN 300 328 V1.9.1	Test report N°143230-689434A Version 02 N°143230-689434C Version 02 N°143228-689533A Version 01 N°143228-689533B version 01	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.