DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España
C.I.F. A29 507 456

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Test report No:

NIE: 62267RBT.001

Test report
Partial Link Layer (LL) Test Specification
Erratum 10734

(*) Identification of item tested	CC2642 Launchpad - single-mode Bluetooth 5.0 low energy and application processor
(*) Trademark	SimpleLink™ Bluetooth® low energy CC26x2 wireless MCU
(*) Model and /or type reference tested	CC26x2
Other identification of the product	N/A
(*) Features	Final HW version: PG2.1 Final SW Version: ble5_hci_test_cc26x2r1lp_app_src_FlashOnly_Release_2_0_1_RC4.hex
(*) Manufacturer	TEXAS INSTRUMENTS INCORPORATED ZARCHIN 26 RA'ANANA ISRAEL
Test method requested, standard	Partial LL testing according to the Link Layer (LL) Test Specification, Document Number LL.TS.5.1.0
Standard.................................:	LL.TS.5.1.0
Test Spec Errata(s)................................:	N/A
(*)ICS......................................:	LL.ICS.5.1.0
TCRL version...:	TCRL 2018-2
Test procedure(s) ....:	PEBT008_01 Bluetooth Protocol Testing Procedure Teledyne
Approved by (name / position & signature)	Juan Manuel Gómez BQTF Technical Responsible
Date of issue	2019-08-14
Report template No	FBT009_19 (*) "Data provided by the client"

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Competences and guarantees

DEKRA Testing and Certification, S.A.U is a BQTF competent to carry out the tests described in this report.

DEKRA Testing and Certification, S.A.U is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation) to perform the test indicated in the Certificate 3350.01.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification, S.A.U has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification, S.A.U guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification, S.A.U at the time of performance of the test.

DEKRA Testing and Certification, S.A.U is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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Uncertainty

N/A

Data provided by the client

The following data has been provided by the client:

1.Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested", "Manufacturer" and "Derived model not tested").

2.The ICS provided by the customer and used for testing are indicated in Annex B

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

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Usage of samples

Samples undergoing test have been selected by: Texas Instruments

Sample M/01, is composed of the following elements:

Control Nº 58387/001	Model and/or type reference:	CC26x2
	Serial number:	Not provided
	Hw version:	PG2.1
	Sw version:	ble5_hci_test_cc26x2r1lp_app_src_FlashOnly_Release_2_0_1_RC4.hex
	Features supported:	BT 5.0 Low Energy Controller, Host supporting Long range, 2MHz PHY and Extended Advertise
	Description of test sample	CC2642 Launchpad - single-mode Bluetooth 5.0 low energy and application processor
	Date of reception	2019-08-05

The sample used for each test case is specified in the" Observations" field of the results annex

Test sample description

The CC26x2 device is fully qualified Bluetooth 5 protocol stack for single-mode Bluetooth low energy applications supporting high speed mode.

Identification of the client

TEXAS INSTRUMENTS INCORPORATED

ZARCHIN 26 RA'ANANA ISRAEL

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-08-08
Date (finish)	2019-08-08

Document history

Report number	Date	Description
62267RBT.001	2019-08-14	First release

Environmental conditions

The following limits were not exceeded during the test:

Temperature	Min= 20 ºC
	Max= 30 ºC
Relative humidity	Min= 20 %
	Max= 75 %

Remarks and comments

N/A

Means of testing identification

TEST SYSTEM:	Harmony Bluetooth LE Protocol Tester (TS3)				
Control Number	6628				
	Control No.	Equipment	Serial No.	Latest Calibration Date	Next Calibration Date
Hardware:	7497	Harmony LE Tester	C1734-00012	N/A	N/A
	7511	Sodera Wideband Bluetooth Protocol Analyzer	C1650-00156	N/A	N/A
Software:	6650	Harmony LE Tester (Release ver. 19.7.16916.19966)			
Test Setup:	See "Test Setup" section.				

	Control No.	Equipment	Serial No.	Latest Calibration Date	Next Calibration Date
Hardware:	3458	HUMIDIPROBE	UAL02/078	2019-04	2020-04
Software:	4762	Control temp_Hum v2.5.1			

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Test setup

TS1: This setup has been used to conduct automated Bluetooth test cases.
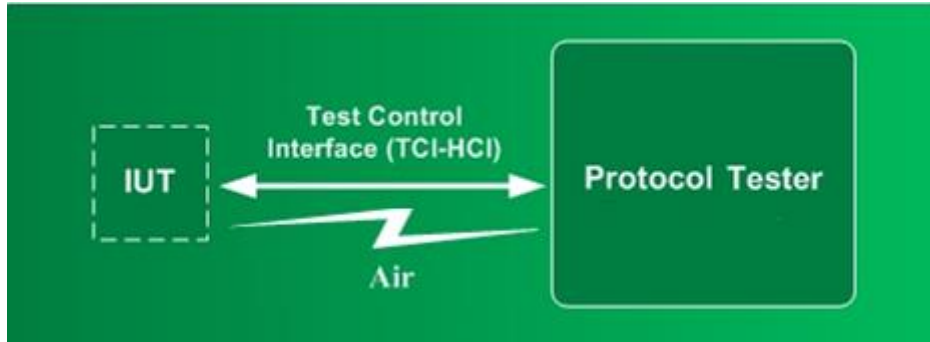
Trace log files were stored automatically for both systems.

Measurement uncertainty

N/A

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

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Appendix A: Test results

Test campaign report

The abbreviations used in the header row of the test campaign report tables are:

Test Case ID :   As it can be found on the standard

Verdict: Records the verdict assigned to each Test Case run to
                   completion (Testing verdicts)

Date: Date of the beginning of the execution.

Observations: Provides a reference to additional information relevant to the test
                   presented in "Test Setup" section.

Test Case ID	Description	Date	Verdict	Observations
LL/CON/MAS/BV-13-C	Feature Setup Request	08/08/2019	P	M/01
LL/CON/MAS/BV-21-C	Master Respond Version	08/08/2019	P	M/01
LL/CON/SLA/BV-14-C	Feature Setup Response	08/08/2019	P	M/01
LL/CON/SLA/BV-22-C	Initiate Feature Exchange	08/08/2019	P	M/01

Note: These test cases are related to Erratum 10734.

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Appendix B: ICS

Implementation Conformance Statement (ICS)

The ICS set for this IUT is consistent with the static conformance requirements in the referenced base specification.
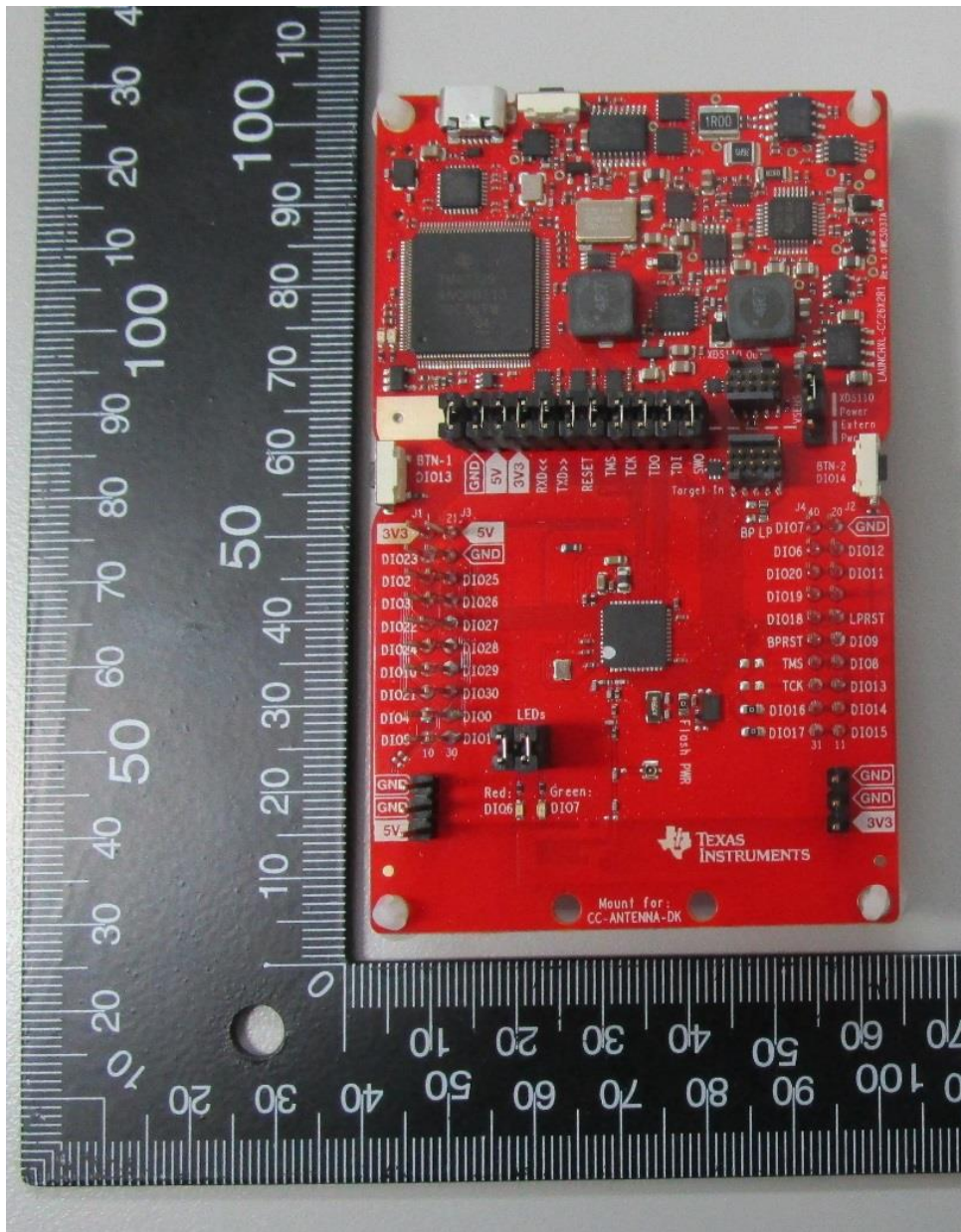The qualified ICS menus of the test system were defined in accordance with the client.

Table 21: Controller Core Configuration

Item	Capability	Reference	Status	Support: Yes or No
17	Core Erratum 10734 Pairing Updates	Erratum 10734	C.7	Yes

C.7: Mandatory IF SUM ICS 21/14 OR 21/16 OR 21/18 are supported, otherwise Excluded.

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Appendix C: Photographs

Front view

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Rear view