



中国认可
国际互认
检测
TESTING
CNAS L5313



DEKRA

RF Exposure Evaluation Declaration

Product Name : EZ-BT WICED Module

Model No. : CYBT-353027-02

IC : 7922A-3027

Applicant : Cypress Semiconductor

Address : 198 Champion Ct, San Jose, California 95134
United States

Date of Receipt : Jan. 31, 2018

Test Date : Feb. 01, 2018~ Apr. 19, 2018

Issued Date : Apr. 20, 2018

Report No. : 1812155R-RF-CA-P20V01

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.

Test Report Certification

Issued Date : Apr. 20, 2018

Report No. : 1812155R-RF-CA-P20V01



Product Name : EZ-BT WICED Module
Applicant : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Manufacturer : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Model No. : CYBT-353027-02
IC : 7922A-3027
EUT Voltage : DC 2.3-3.6V
Applicable Standard : RSS-102: Issue 5, 2015
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,
215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
IC Lab Code: 4075B

Documented By :

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(Adm. Specialist: Kathy Feng)

Reviewed By :

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(Senior Engineer: Frank He)

Approved By :

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(Engineering Manager: Harry Zhao)

1. RF Exposure Evaluation

1.1. Limits

From RSS-102 Issue 5, Section 2.5.1 Exemption

No SAR Evaluation Required if power is below the following threshold:

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance^{4,5}

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	EZ-BT WICED Module
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

● Antenna Gain:

Model No.		N/A								
Antenna manufacturer		N/A								
Antenna Delivery		☒	1*TX+1*RX		☐	2*TX+2*RX		☐	3*TX+3*RX	
Antenna technology		☒	SISO							
		☐	MIMO	☐	Basic					
				☐	CDD					
				☐	Sectorized					
				☐	Beam-forming					
Antenna Type		☐	External	☐	Dipole					
				☐	Sectorized					
		☒	Internal	☐	PIFA					
				☐	PCB					
				☒	Ceramic Chip Antenna					
				☐	Monopole Antenna					
Antenna Technology		Ant Gain (dBi)								
☒	SISO	-1								

Maximum measured transmitter power:

Maximum conducted tune-up power is 9.9dBm for BT3.0, 7.0dBm for BLE:

Frequency (MHz)	Pout Conducted (dBm)	Pout Conducted (mW)	Maximum Antenna Gain (dBi)	Pout EIRP (mW)
BT3.0	9.9	9.772	-1	7.762
BLE	7.0	5.012	-1	3.981

$EIRP = P_{Conducted} + \text{Antenna Gain}$

Threshold for no SAR evaluation in 15mm is 15.00 mW

Maximum TX Power is 9.772mW Conducted and 7.762mW EIRP

Maximum TX Power is 9.772mW

Conclusion: SAR is not required for EZ-BT WICED Module as long as the distance is higher than 15mm away from the user since the maximum output power(both conducted and EIRP) is below IC threshold.

_____ The End _____