











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



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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.

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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	Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation		
	distance of	distance of	distance of	distance of	distance of		
	≤5 mm	10 mm	15 mm	20 mm	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	Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation		
	distance of	distance of	distance of	distance of	distance of		
	30 mm	35 mm	40 mm	45 mm	≥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 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*R	RX		2*TX+2*RX		3*TX+3*RX	
Antenna technology	\boxtimes	SISO						
		МІМО		Basic				
				CDD				
				Sectorized				
				Beam-forming				
Antenna Type		External	Dipole					
	$ \Box $	External		Sectorized				
			☐ PIFA					
		Internal		PCB				
				Ceramic Chip Antenna				
				Monopole Antenna				
Antonio Tarkandani	Ant Gain							
Antenna Technology	(dBi)							
⊠ siso	-1							



Maximum measured transmitter power:

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

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

EIRP= PConducted+ 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
