

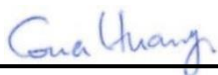
RF Exposure Evaluation Report

FCC ID : 2AZRQDEVKIT20
Equipment : tooz v0.x PD32_R140_MC50p
Brand Name : tooz
Model Name : tooz DevKit 20
Marketing Name : tooz DevKit 20
Applicant : TOOZ technologies GmbH
Turnstraße 27, 73430 Aalen, Germany
Manufacturer : Quanta Computer Inc.
No. 211, Wenhua 2nd Rd., Guishan Dist., Taoyuan City
33377, Taiwan (R.O.C.)
Standard : 47 CFR Part 2.1093

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA0D0134-01	Rev. 01	Initial issue of report	May 12, 2021



1. General Information

1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	tooz v0.x PD32_R140_MC50p
Brand Name	tooz
Model Name	tooz DevKit 20
Marketing Name	tooz DevKit 20
FCC ID	2AZRQDEVKIT20
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	Bluetooth BR/EDR/LE
Antenna Type	PIFA Antenna
HW Version	QFR2_DVT2_20200829
DUT Stage	Production Unit

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

2. Maximum RF output power among production units

Mode	Average power (dBm)	
	BR / EDR	LE
Tune-up Limit	4.00	4.50



3. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
4.5	2.82	5	2.48	0.89

Note:

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Conclusion: Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.89 which is ≤ 3 , SAR testing is not required.