



RF EXPOSURE EVALUATION REPORT

FCC ID : 2ANZ4-2793
Equipment : Electronic Display Device
Model Name : S8IN4O
Applicant : Gigico International LLC
3523 45th Street South, Suite 100
Fargo, North Dakota 58104
Standard : 47 CFR Part 2.1093

We, SPORTON INTERNATIONAL INC has been evaluated in accordance with 47 CFR Part 2.1093 for the device and pass the limit.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The results in this variant 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

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report



1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Electronic Display Device
Model Name	S8IN4O
FCC ID	2ANZ4-2793
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN 2.4GHz : 802.11b/g/n HT20 Bluetooth BR/EDR/LE

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

Reviewed by: Jason Wang

Report Producer: Daisy Peng

2. RF Exposure Evaluation

- 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.
 - $f(\text{GHz})$ 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
- The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- For this e-reader device, the test separation distance is 0mm therefore 5mm is used in the equation. For each of the technologies the maximum output power (nominal power plus tune-up tolerance), corrected for both source- based duty cycle and UBDTF duty cycle calculated in this document, is used in the equation above to determine if SAR is excluded (value is 3.0 or less) or required (value exceeds 3.0). The table on the following page shows the results – thresholds with a green background meet the exclusion criteria, those in red do not.

ANT 1 / 2	Tx	Freq. (MHz)	UBDTF Duty Cycle ^{Note1}	Output Power			Separation distance (mm) ^{Note 3}	Threshold Value ^{Note 4}
				dBm	mW	mW ^{Note2}		
WLAN	802.11b	2472	5.18%	22	158.5	8.2	5	2.6
WLAN	802.11g	2472	5.18%	22	158.5	8.2	5	2.6
WLAN	802.11n	2472	5.18%	22	158.5	8.2	5	2.6
BT	BR	2480	83.30%	7	5.0	4.2	5	1.3

Note :

- : UBDTF duty factor calculation in this document.
- : Maximum power adjusted for UBDTF (see note 1) and rounded to closest mW as per KDB 447498 procedures.
- : Minimum test separation distance between enclosure and person is 5mm per KDB 616217 D04 Tablet computer device test procedures.
- : To exclude the device from SAR testing the threshold value must be less than 3.0.

Conclusion:

According to the UBDTF document analysis exhibit, the WLAN and Bluetooth maximum tune-up power scaled down with the transmission factor is applied in standalone SAR test exclusion threshold analysis and is exempted from SAR testing.