



Power Verification Report

FCC ID: : PD9AX211D2

Equipment : WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card

Brand Name : Intel

Model Name : AX211D2W

Applicant : Intel Corporation Inc.

100 Center Point Circle, Suite 200 Columbia, SC
29210 USA

The product was installed into Notebook Computer (Brand Name: HP, Model Name:

HSN-I55C) during test.

The product was received on Jun. 15, 2022 and testing was started from Jun. 15, 2022 and completed on Jun. 17, 2022. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 201911 TCB workshop.

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

Cona Huang

Approved by: Cona Huang / Deputy Manager



Sporton International Inc. EMC & Wireless Communications Laboratory
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1. Equipment Under Test (EUT) Information

Product Feature & Specification	
Equipment Name	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel
Model Name	AX211D2W
Wireless mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160

2. Guidance Applied

The testing specification, method, and procedure for this device is in accordance with the following standards:

- 201911 TCBC workshop

3. Sensor Triggering angle and power verification

General Note:

1. The following guidance should be applied to laptops/tablets that use Hall Effect or gravity sensors to detect lid angle for the purpose of power reduction:

Step 1: With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained
Step 2: Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps
Step 3: Open the screen in 1 degree steps until laptop mode is reobtained
Step 4: Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained
Step 5: Then continue opening the screen in 10 degree steps until tablet mode is obtained
Step 6: Power measurements should be taken at each step
Step 7: Reverse this procedure going from tablet mode back down to closed mode

**Intel AX211D2W power verification as following:**

Lid angle (degree) v.s. power	Device mode from Lid close to Tablet				
	Display Flip	Device mode	Wireless		
			Lid angle	2.4GHz WLAN	5GHz WLAN
Lid angle (degree) v.s. power	Display Flip	Lid Closed	0	19.21	10.25
			10	19.21	10.25
			15	19.25	10.23
		Laptop	16	19.25	10.18
			17	19.28	10.20
			18	19.24	10.21
			19	19.30	10.17
			20	17.88	18.32
			21	17.83	18.27
			22	17.86	18.26
Lid angle (degree) v.s. power	Display Flip 0°	Laptop	23	17.90	18.33
			24	17.80	18.27
			25	17.82	18.34
			35	17.88	18.33
			45	17.89	18.26
			55	17.83	18.30
			65	17.88	18.34
			75	17.74	18.31
			85	17.84	18.28
			95	17.88	18.29
			105	17.81	18.29
			115	17.86	18.30
			125	17.85	18.30
			135	17.86	18.31
			136	17.90	18.26
			137	17.81	18.28
			138	17.84	18.28
			139	17.87	18.26
			140	17.82	18.28
Lid angle (degree) v.s. power	Display Flip 0°	Laptop	140	17.85	18.34
			139	17.83	18.26
			138	17.89	18.31
			137	17.90	18.26
			136	17.88	18.31
			135	17.90	18.27
			125	17.85	18.34
			115	17.82	18.25
			105	17.80	18.27
			95	17.82	18.33
Lid angle (degree) v.s. power	Display Flip 0°	Lid Closed	85	17.85	18.30
			75	17.81	18.33
			65	17.87	18.35
			55	17.80	18.25
			45	17.85	18.26
		Lid Closed	35	17.85	18.34
			25	17.85	18.28
			24	17.80	18.31
			23	17.90	18.33
			22	17.89	18.25
Lid angle (degree) v.s. power	Display Flip 0°	Lid Closed	21	17.85	18.30
			20	17.88	18.28
			19	19.26	10.16
			18	19.28	10.25
			17	19.23	10.16
		Lid Closed	16	19.20	10.18
			15	19.26	10.16
			10	19.28	10.18
			0	19.29	10.20



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-	Media/Movie	Fixed position	17.88	18.32
		90	17.89	18.34
Display Flip 180°	Presentation	89	17.82	18.30
		88	17.89	18.31
		87	17.83	18.28
		86	17.89	18.31
		85	17.85	18.31
		75	17.88	18.29
		65	17.90	18.34
		55	17.80	18.34
		45	17.80	18.25
		35	17.83	18.30
		25	17.85	18.35
		24	17.84	18.25
		23	17.89	18.35
		22	17.80	18.25
	Tablet	21	17.82	18.28
		20	17.87	18.33
		19	19.25	10.24
		18	19.23	10.25
		17	19.24	10.21
		16	19.23	10.20
Display Flip 180°	Tablet	15	19.29	10.15
		10	19.20	10.20
		0	19.26	10.21
		0	19.26	10.24
		10	19.28	10.21
		15	19.29	10.15
		16	19.28	10.19
	Presentation	17	19.27	10.15
		18	19.27	10.20
		19	19.30	10.20
		20	17.80	18.32
		21	17.81	18.27
		22	17.88	18.35
		23	17.81	18.27
		24	17.81	18.31
		25	17.88	18.25
		35	17.90	18.25
		45	17.90	18.32
		55	17.83	18.32
		65	17.87	18.31
		75	17.88	18.31
		85	17.88	18.29
		86	17.88	18.35
		87	17.87	18.30
		88	17.80	18.26
		89	17.80	18.30
		90	17.90	18.35