

Page: 1 of 12





### RF EXPOSURE REPORT

Applicant: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

Manufacturer: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

**Product Name:** Fleet Hub

**Brand Name:** Axon

Model No.: AX1033

**Model Difference:** N/A

**Report Number:** ER/2021/20094

FCC ID X4GS01405

IC: 8803A-S01405

**FCC Rule Part** Part 2.1091

IC Rule: RSS-102 issue 5 Mar. 19, 2015

**Issue Date:** May 3, 2021

### We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

The results of this report relate only to the sample identified in this report.

Approved By:

John Yeh / Asst. Manager

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Page: 2 of 12

Revision History							
Report Number	Revision	Description	Issue Date	Revised By			
ER/2021/20094	Rev.00	Original.	May 3, 2021	Ariel Chang			

### Note:

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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Page: 3 of 12

## **Contents**

1	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)
2	FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)10

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Page: 4 of 12

# **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**

#### 1.1 General:

Product Name	Fleet Hub
Brand Name	Axon
Model No.	AX1033
Model Difference	N/A
Hardware Version	X3
Firmware Version	IG2.DVT.1.2
Power Supply	12Vdc

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Page: 5 of 12

#### 1.2 **Antenna Information:**

#### 1.2.1 WLAN 2.4GHz

Antenna Type	Supplier	Antenna Part No.	Main/Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Antenna Gain of Beamforming (dBi)
PIFA	Airgain	AP-AXONF3-MMF-Q-MS-BL-15	Main		2.3	5.30
Dipole	Airgain	AP-AXONF3-GL-WWG-BL-3M	Main	2412-2462	N/A	N/A
Dipole Airgain		AF-AAOINI 3-GE-WWWG-BE-SIVI	ivialli		N/A	IN/A

Note: The N/A represents that the Antenna does not available in the specified frequency.

#### 1.2.2 BT

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	Airgain	AP-AXONF3-GL-WWG-BL-3M	2.4GHz	2.50	-

#### 1.2.1 5GHz IC

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Main Antenna Peak Gain (dBi)	Directional Gain of Beamforming (dBi)	
			5250~5350	0.7	3.70	
PIFA	Airgain	AP-AXONF3-MMF-Q-MS-BL-15	5470~5725	N/A	N/A	
			5725~5850	N/A	N/A	
			5250~5350	N/A	N/A	
Dipole	Airgain	AP-AXONF3-GL-WWG-BL-3M	5470~5725	1.10	4.10	
			5725~5850	1.30	4.10	
Note: The N/A represents that the Antenna does not available in the specified frequency.						

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Page: 6 of 12

#### 1.2.2 **5GHz FCC**

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Main Antenna Peak Gain (dBi)	Directional Gain of Beamforming (dBi)		
			5150~5250	0.5	3.50		
PIFA	DIEA Almada	n AP-AXONF3-MMF-Q-MS-BL-15	5250~5350	0.7	3.70		
PIFA	Airgain		5470~5725	N/A	N/A		
			5725~5850	N/A	N/A		
			5150~5250	N/A	N/A		
Dipole	Airaain	AD AYONES OF MING BL SM	5250~5350	N/A	N/A		
Dipole	Airgain	ain AP-AXONF3-GL-WWG-BL-3M	5470~5725	1.10	4.10		
			5725~5850	1.30	4.10		
Note: The N/A represents that the Antenna does not available in the specified frequency.							

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Page: 7 of 12

#### 1.3 **Rated Power**

#### Bluetooth / WLAN 2.4GHz 1.3.1

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BR+EDR	2402-2480	79	GFSK + π /4DQPSK + 8DPSK	6.91	2.50	9.41	V
BLE	2402-2480	40	GFSK	4.55	2.50	7.05	
802.11b/g/n_HT20/ax_HE20/n_HT40/n_HE40	2412-2472	13	DSSS & OFDM	26.08	2.30	28.38	V
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM						

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Page: 8 of 12

#### 1.3.2 **WLAN 5GHz:**

802.11	Freq. Range (MHz)	Modulation Technology	Max. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
	5150~5250		23.29	0.50	23.79	
	5250~5350		22.92	0.70	23.62	
a	5470~5725		22.35	1.10	23.45	
	5725~5850		29.09	1.30	30.39	
	5150~5250		20.52	3.50	24.02	
n HT20	5250~5350		20.48	3.70	24.18	
ac VHT20	5470~5725		19.82	4.10	23.92	
	5725~5850	OFDM	26.47	4.10	30.57	
	5150~5250	OFDIVI	20.39	3.50	23.89	
n HT40	5250~5350		20.54	3.70	24.24	
ac VHT40	5470~5725		20.49	4.10	24.59	
	5725~5850		24.84	4.10	28.94	
	5150~5250		19.72	3.50	23.22	
ac VHT80	5250~5350		18.23	3.70	21.93	
ac viiiou	5470~5725		20.56	4.10	24.66	
	5725~5850		20.80	4.10	24.90	
	5150~5250		20.66	3.50	24.16	
ax HE20	5250~5350		20.66	3.70	24.36	
ax nezu	5470~5725		19.93	4.10	24.03	
	5725~5850		27.53	4.10	31.63	V
	5150~5250		20.43	3.50	23.93	
ax HE40	5250~5350	OFDMA	20.28	3.70	23.98	
ax i iL+0	5470~5725	OI DIVIA	20.20	4.10	24.30	
	5725~5850		24.84	4.10	28.94	
	5150~5250		19.27	3.50	22.77	
ax HE80	5250~5350		17.94	3.70	21.64	
ax i i i i i	5470~5725		20.53	4.10	24.63	
	5725~5850		20.74	4.10	24.84	

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Page: 9 of 12

#### **WLAN 5GHz:** 1.3.3

802.11	Freq. Range (MHz)	Modulation Technology	Max. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
	5260~5320		22.92	0.70	23.62	
	5500~5580		22.92	1.10	24.02	
а	5660~5700		22.35	1.10	23.45	
	5745~5825		29.09	1.30	30.39	
	5260~5320		20.48	3.70	24.18	
n HT20	5500~5580		19.82	4.10	23.92	
ac VHT20	5660~5700		19.23	4.10	23.33	
	5745~5825	OFDM	26.47	4.10	30.57	
	5270~5310		20.54	3.70	24.24	
n HT40	5510~5550		20.05	4.10	24.15	
ac VHT40	5670~5670		20.49	4.10	24.59	
	5755~5795		24.84	4.10	28.94	
	5290~5290		18.23	3.70	21.93	
ac VHT80	5530~5530		16.63	4.10	20.73	
	5775~5775		20.80	4.10	24.90	
	5260~5320		20.66	3.70	24.36	
ax HE20	5500~5580		19.93	4.10	24.03	
ax nezu	5660~5700		18.81	4.10	22.91	
	5745~5825		27.53	4.10	31.63	V
	5270~5310		20.28	3.70	23.98	
ov UE 40	5510~5550	OFDMA	19.50	4.10	23.60	
ax HE40	5670~5670		20.20	4.10	24.30	
	5755~5795		24.84	4.10	28.94	
	5290~5290		17.94	3.70	21.64	
ax HE80	5530~5530		15.29	4.10	19.39	
	5775~5775		20.74	4.10	24.84	

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Page: 10 of 12

## 2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time				
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm <sup>2</sup> )	(minute)				
Limits for General Population/Uncontrolled Exposure								
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30				
30-300	27.5	0.073	0.2	30				
300-1500	/	/	f/1500	30				
1500-100000	/	/	1.0	30				

f = frequency in MHz

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$ 

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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<sup>\* =</sup> Plane-wave equipment power density



Page: 11 of 12

#### 2.2 **ISED Standard Applicable**

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissive Exposure (MPE)

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)							
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m²)	Reference Period (minutes)			
0.003-10	83	90	-	Instantaneous*			
0.1-10	-	0.73/ f	-	6**			
1.1-10	87/ f <sup>0.5</sup>	-	1	6**			
10-20	27.46	0.0728	2	6			
20-48	58.07/ f <sup>0.25</sup>	0.1540/ f <sup>0.25</sup>	$8.944/f^{0.5}$	6			
48-300	22.06	0.05852	1.291	6			
300-6000	3.142 f <sup>0.3417</sup>	$0.008335 f^{0.3417}$	$0.02619f^{0.6834}$	6			
6000-15000	61.4	0.163	10	6			
15000-150000	61.4	0.163	10	616000/ f <sup>1.2</sup>			
150000-300000	0.158 f <sup>0.5</sup>	4.21 x 10-4 f <sup>0.5</sup>	6.67 x 10-5 <i>f</i>	616000/ f <sup>1.2</sup>			

F = frequency in MHz

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$ 

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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<sup>\* =</sup> Based on nerve stimulation (NS).

<sup>\*\* =</sup> Based on specific absorption rate (SAR)



Page: 12 of 12

## 2.3 Power Density Calculation (Worst Case)

FCC Standalone MPE										
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Max. output Power EIRP (mW)	Power Density (PD) (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass / Fail	Power Density/ Limit	Collocate d MPE
BT	2441.00	20	6.91	2.50	8.73	0.0017	1.000	Pass	0.002	V
WLAN 2.4G	2462.00	20	26.08	2.30	688.65	0.137	1.000	Pass	0.137	V
WLAN 5G	5745.00	20	27.53	4.10	1455.46	0.290	1.000	Pass	0.290	V

ISED Standalone MPE											
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Output Power EIRP (mW)	Power Density (PD) (W/m²)	Limit (W/m²)	Pass / Fail	Power Density/ Limit	Collocate d MPE	
BT	2441.00	20	6.91	2.50	8.73	0.017	5.410	Pass	0.003	V	
WLAN 2.4G	2462.00	20	26.08	2.3	688.65	1.371	5.442	Pass	0.252		
WLAN 5G	5180.00	20	26.47	4.10	1140.25	2.270	9.047	Pass	0.251	V	

~ End of Report ~

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