



FCC TEST REPORT FCC ID: 2ACFQ-ORBITA100

Product	:	Wireless Carplay/Android Auto Adapter				
Model Name	Model Name : Orbit A100					
Serial model	odel : Refer to page5					
Brand	Brand : MyGekoGear/gekogear					
Report No.	Report No. : PTC24030500102E-FC05					
Prepared for						
		ADESSO INC.				
	20659 Valley BLVD. Walnut, CA 91789, U.S.A.					
Prepared by						
Precise Testing & Certification Co., Ltd.						
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.						



TEST RESULT CERTIFICATION

Applicant's name ADESSO INC.

Address 20659 Valley BLVD. Walnut, CA 91789, U.S.A.

Manufacture's name : ADESSO ELECTRONICS INC.

No.5, ChengDa East St., Xiagang Community, Changan,

Address : DongGuan, China

Product name Wireless Carplay/Android Auto Adapter

Model name Orbit A100

Serial model : Refer to page5

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Apr. 18, 2024 to May. 21, 2024

Date of Issue : Jun. 25, 2024

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

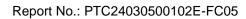
Test Engineer:

Jack zhou / Engineer

Jule Vhu

Technical Manager:

Simon Pu / Manager





Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 Test Result	7



2 Test Summary

Test Items	Test Requirement	Result			
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS			
Remark:					
N/A: Not Applicable					



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wireless Carplay/Android Auto Adapter		
Model Name	:	Orbit A100		
Additional model Orbit A200, Orbit A300, Orbit A400, Orbit A500, Orbit A600, Orbit A700, Orbit A800, Orbit A900				
Specification	Bluetooth BDR+EDR Bluetooth BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40			
Operation Frequency	:	2400-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40) 5G Wifi:5180-5240 MHz 5.8G Wifi:5745MHz~5825MHz		
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40) 4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40 5180-5240 MHz 2 channels for 802.11n40/ac40 5745MHz~5825MHz		
Type of Modulation	:	GFSK, П/4-DQPSK,8DPSK For DSS GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac		
Antenna installation	:	PCB antenna		
Antenna Gain	:	2.4G:1.39 dBi 5.2G:1.75 dBi 5.8G:1.67 dBi		
Power supply	:	DC 5V/100mA		
Hardware Version	:	V1.0		
Software Version	:	N/A		



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500		3.0.0	F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density



4.3 MPE Calculation Method

 $E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \theta \varphi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Test Frequency(M Hz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result	Test mode
2480	1.38	9.69	9.69±1	11.721954	0.003212	1	Pass	3DH5
2480	1.38	7.29	7.29±1	6.745280	0.001848	1	Pass	BLE_2M
2412	1.38	21.56	21.56±1	181.551566	0.049743	1	Pass	802.11B
5240	1.50	18.07	18.07±1	80.723503	0.024029	1	Pass	11N20SIS O
5825	1.47	15.14	15.14±1	41.114972	0.012015	1	Pass	11AC20SI SO



5 simultaneous MPE Result

BT(3DH5) MPE ratio	2.4GWiFi (802.11B) MPE ratio	5.2GWIFI (11N20SISO) MPE ratio	simultaneous MPE ratio	MPE Limits ratio	Test result
0.003212	0.049743	0.024029	0.076984	1	PASS

******THE END REPORT*****