



# TEST REPORT

## EN62311: 2008

Prepared for :

**Shenzhen Omni Intelligent Technology Co.,Ltd**

**5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road, Longgang District, Shenzhen, Guangdong, China**

**Product: Sharing scooter IOT controller**

**Trade Name: Omni**

**Model Name: OT303BL**

**Date of Test: Oct. 15, 2018 to Nov. 16, 2018**

**Date of Report: Nov. 16, 2018**

**Report Number: UNIA2018101512HR-01**

Prepared By :

**Shenzhen United Testing Technology Co., Ltd.**

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Applicant : Shenzhen Omni Intelligent Technology Co.,Ltd  
Address : 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road,  
Longgang District, Shenzhen, Guangdong, China  
Manufacturer : Shenzhen Omni Intelligent Technology Co.,Ltd  
Address : 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road,  
Longgang District, Shenzhen, Guangdong, China  
EUT Description : Sharing scooter IOT controller  
(A) Model No. : OT303BL  
(B) Serial Model : N/A  
(C) Power Supply : DC 36V From Battery

**Standards**..... EN 62311:2008

This device described above has been tested by UNI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... **Pass**

Date of Test: Nov. 15, 2018 to Nov. 16, 2018

Prepared by:

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**. GENERAL INFORMATION**

GENERAL DESCRIPTION OF EUT

Equipment	Sharing scooter IOT controller	
Brand Name	Omni	
Model Name.	OT303BL	
Serial Model	N/A	
Product Description	The EUT is Sharing scooter IOT controller.	
	2/3/4G, BLE, GPS	
	Operation Frequency:	GSM900: 880.2MHz~914.8MHz DCS1800: 1710.2MHz~1784.8MHz FDD Band I:1922.4MHz~1977.6MHz, FDD Band VIII:882.4MHz~912.6MHz Band 1:1920-1980MHz, Band 3:1710-1785MHz, Band 7:2500-2570MHz, Band 8:880-915MHz, Band 20:832-862MHz Band 38:2570-2620MHz Band 40:2300-2400MHz BLE:2402-2480MHz
	Modulation Type:	GMSK for GSM/GPRS/EGPRS QPSK , 16-QAM
	Antenna Designation:	Integral Antenna
Antenna Gain(Peak)	GSM900: -0.98dbi,DCS1800: -1.27dbi	
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Refer to below	
Hardware Version	V1.0	
Software Version	V1.0	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## .EN 62311 REQUIREMENT

### GENERAL INFORMATION

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62311: 2008 [Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz)]

### LIMIT

A. Typical usage, installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as those listed in the bibliography. This low-power equipment includes unintentional (or non-intentional) radiators, for example incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters.

NOTE Equipment is described as A/V equipment, ITE or MME if its main use is playback/recording of music, voice or images, or processing of digital information.

B. The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in 4.2.

C. The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in 4.2.

D. Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2.



### 3. RESULT

#### 3.1 Summary of Results

Limit (W/ m <sup>2</sup> )	Result (W/ m <sup>2</sup> )	Verdict
10	0.0	passed

#### 3.2 MPE Evaluation

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

P = Power input to antenna

G = Antenna Gain

R = distance to the center of radiation of antenna (in meter) = 0.2 m

$\pi=3.142$

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Operation Mode	Max. Conducted Power (dBm)	Antenna Gain(dBi)	Max. EIRP (W)	R (m)	S (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Conclusion
2G	31.33	-0.98	1.358	0.2	-2.648	10	PASS

Operation Mode	Max. Conducted Power (dBm)	Antenna Gain(dBi)	Max. EIRP (W)	R (m)	S (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Conclusion
3G	23.42	0	0.220	0.2	0	10	PASS

Operation Mode	Max. Conducted Power (dBm)	Antenna Gain(dBi)	Max. EIRP (W)	R (m)	S (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Conclusion
4G	23.96	0	0.249	0.2	0	10	PASS

Operation Mode	Max. Conducted Power (dBm)	Antenna Gain(dBi)	Max. EIRP (W)	R (m)	S (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Conclusion
BLE	1.6	0	0.001	0.2	0	10	PASS

#### 3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95%      0.5dB

.....End of Report.....