



## TEST REPORT

Report No. : AL027802-001 Date : 2009-08-13

Application No. : LL223014(1)

Client : Activision Publishing, Inc.  
3100 Ocean Park Blvd.,  
Santa Monica, CA 90405,  
United States

Sample Description : One (1) submitted sample(s) stated to be PS3 "Tony Hawk: Ride" Skateboard  
Controller of Model No. 83783.505  
Rating : USB DC 5V  
No. of submitted sample : Three (3) piece(s)

Date Received : 2009-07-10.

Test Period : 2009-07-15 to 2009-07-17.

Test Requested : FCC Part 15 Certification.

Test Method : 47 CFR Part 15 (10-1-08 Edition)  
ANSI C63.4 – 2003

Test Result : See attached sheet(s) from page 2 to 11.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15  
Subpart B.

*For and on behalf of*  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

  
Mr. Wong Lap-Pong, Andrew  
Assistant Manager  
Electrical Division

FCC ID: XLU83783505

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### **1 General Information**

#### **1.1 General Description**

The equipment under test (EUT) is a Dongle Unit for PS3 “Tony Hawk: Ride” Skateboard Controller. The oscillation of MCU is generated by a crystal. The EUT is powered USB DC 5V. There is a synchronization button on the dongle unit. When the dongle unit is connected to a PS3 and synchronized to the skateboard, the player can play the TV games.

The brief circuit description is listed as follows:

- MTF0234\_RX and associated circuit act as a main processor.
- 24LC01/02 and associated circuit act as an user data storage.
- MAR105P and associated circuit act as a RF module.



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### **1.2 Location of the test site**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. A shielded room is located at :

Ground Floor, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.



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### 1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date
EMI Test Receiver	R&S	ESCI	100152	2009-12-02
Bilog Antenna	Schaffner	CBL6112B	2718	2010-05-23

### 1.4 List of supporting equipment

Playstation 3  
Model No.: CECHH12  
Serial No.: 02-27435091-8712901-CECHH12



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### **2 Description of the radiated emission test**

#### **2.1 Test Procedure**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

#### **2.2 Test Result**

The emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.



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### 2.3 Radiated Emission Measurement Data

#### Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB $\mu$ V)	Antenna Factor and Cable Loss (dB/m)	Field Strength (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
240.018	H	27.8	10.3	38.1	46.0	-7.9
251.986	H	17.0	14.1	31.1	46.0	-14.9
275.998	H	21.7	14.1	35.8	46.0	-10.2
288.034	H	27.2	14.1	41.3	46.0	-4.7
323.996	H	15.1	15.9	31.0	46.0	-15.0
336.043	H	18.4	15.9	34.3	46.0	-11.7
374.999	V	15.7	15.9	31.6	46.0	-14.4



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### **3 Description of the Line-conducted Test**

#### **3.1 Test Procedure**

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

#### **3.2 Test Result**

The EUT was connected to a Playstation 3 to produce the conducted emissions.

It was found that the EUT met the FCC requirement.

#### **3.3 Graph and Table of Conducted Emission Measurement Data**

For electronic filing, the documents are saved with filename TestRpt2.pdf.





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### **4 Photograph**

#### **4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission**

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg.

#### **4.2 Photographs of the External and Internal Configurations of the EUT**

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.



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### 5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

#### 5.1 Bandwidth

Not Applicable

#### 5.2 Duty cycle

Not Applicable

#### 5.3 Transmission time

Not Applicable



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### 6 Appendices

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A2.	Photos of the set-up of Conducted Emissions	2	pages
A3.	Photos of External Configurations	1	page
A4.	Photos of Internal Configurations	1	page
A5.	ID Label/Location	1	page
A6.	Conducted Emission Measurement Data	2	pages
A7.	Block Diagram	1	page
A8.	Schematics Diagram	1	page
A9.	User Manual	1	page
A10.	Operation Description	1	page

\*\*\*\*\* End of Report \*\*\*\*\*