



Report No.: AGC01883140501FE07

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# OET Bulletin 65 (MPE) Test Report

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Report No.: AGC01883140501FE07

**FCC ID** : 2ACGKWHUB-001  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Wireless Hub  
**BRAND NAME** : ServersCheck  
**TEST MODEL** : WHUB-001  
**CLIENT** : ServersCheck Europe  
**DATE OF ISSUE** : July 03, 2014  
**STANDARD(S)** : OET Bulletin 65  
**REPORT VERSION** : V1.01

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.01	/	July 03, 2014	Valid	Original Report

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## 1. TEST RESULT CERTIFICATION

<b>Applicant Name:</b>	ServersCheck Europe
<b>Address:</b>	Leuvensesteenweg 613 Unit 4, 1930 ZAVENTEM BELGIUM
<b>Manufacturer Name:</b>	Design Gateway Co., Ltd.
<b>Address:</b>	54 BB Building, 13th Floor (Room 1302), Sukhumvit 21 Rd. (Asoke), Klongtoey-Nu Wattana, Bangkok 10110, Thailand
<b>Product Designation</b>	Wireless Hub
<b>Brand Name</b>	ServersCheck
<b>Test Model</b>	Wireless Hub
<b>Test Standard</b>	OET Bulletin 65
<b>Date of Test:</b>	June 05,2014 to June 25,2014

We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Standard OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01). The results of testing in this report apply to the product/system which was tested only.

Tested by



Bart Xie

July 03, 2014

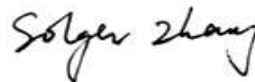
Checked By



Kidd Yang

July 03, 2014

Authorized By



Solger Zhang

July 03, 2014

## 2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

### EUT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Wireless Hub
Hardware version:	1.00
Software version:	1.00
Operation Frequency:	2405.00-2480.00MHz, (Channel Number: 16, Channel Frequency=2405+5(K-1), K=1, 2, 3 .....16)
Modulation:	OQPSK
Power Supply:	DC12V
Antenna Designation:	Fixed Antenna
Average Power:	10.63dBm Maximum
Extreme Temp. Tolerance	-10°C to +55°C
*** Note: The EUT couldn't be operating normally with higher or lower voltage.	

### **3. RF EXPOSURE MEASUREMENT**

#### **3.1 INTRODUCTION**

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 20 cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

### 3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes)
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 -- 100,000	--	--	1.0	30

\*Note:

1. f= Frequency in MHz \* Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

#### **4. CLASSIFICATION OF THE ASSESSMENT METHODS**

According to user manual, The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

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

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

#### **5. EUT OPERATION CONDITION**

Make the EUT to transmit at lowest, middle and highest channel individually.



## 6. TEST RESULTS

Note: report the worst result in this part

Antenna Gain=1.0dBi (Numeric 1.26),  $\pi=3.141$

Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
MHz	dBm	mW	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>	Pass/Fail
2405	10.63	11.56	0.0029	1.000	Pass

**Note:**

The output power is refer to AGC01883140501FE02.

According to the user manual, the minimum separate distance which used for MPE calculate is 20cm.