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Release Control Record						
Issue No.	Description			Date Issued		
SA130107C03C	Original release			Mar. 04, 2016		
Poport No · SA120107C		Page No. 2 / 5		Poport Format Varsion: 6.1.1		



1 **Certificate of Conformity**

Product:	LONG RANGE WIRELESS 11N AP/CB		
Brand:	EnGenius		
Test Model:	ENS500EXT		
Series Model:	ENS500		
Sample Status:	Engineering Sample		
Applicant:	EnGenius Technologies		
Test Date:	Feb. 02 ~ Feb. 23, 2016		
Standards:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01 General RF Exposure Guidance v06		
	IEEE C95.1-2005		

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	Celine	Chou	, Date:	Mar. 04, 2016	
	Celine Chou /	Specialist			

Approved by :

ren	CI	in
Ken Liu / Senior	Manage	er

Mar. 04, 2016 Date:



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Power Density (mW/cm ²)	Average Time (minutes)				
	Limits For General Population / Uncontrolled Exposure						
300-1500	300-1500 F/1500 30						
1500-100,000			1.0	30			

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
5180-5240	22.84	8.01	20	0.242	1
5745-5825	22.51	8.01	20	0.224	1

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi

* Both of the U-NII-1 band and U-NII-3 band can not transmit simultaneously

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