

## RF Exposure Report

**Report No.:** SA131210E07R

**FCC ID:** 2AE3B-AEH-AR9485

**Test Model:** AEH-AR9485

**Received Date:** Feb. 09, 2017

**Test Date:** Feb. 23, 2017

**Issued Date:** Mar. 06, 2017

**Applicant:** VoxMicro LTD.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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Taiwan R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
SA131210E07R	Original release.	Mar. 06, 2017

## 1 Certificate of Conformity

**Product:** 11n mPCIe SB WIFI 1x2 HB125 / AR5B125

**Brand:** AIRETOS

**Test Model:** AEH-AR9485

**Sample Status:** R&D SAMPLE

**Applicant:** VoxMicro LTD.

**Test Date:** Feb. 23, 2017

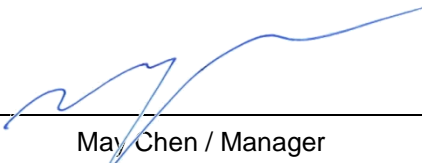
**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 :**  , **Date:** Mar. 06, 2017  
Claire Kuan / Specialist

**Approved by :**  , **Date:** Mar. 06, 2017  
May Chen / Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

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

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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**.

### 2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

No.	Brand	Model	Gain(dBi) (included cable loss)	Antenna Type	Connector	Cable Loss(dB)	Cable Length(mm)
1	WNC	81-EBJ15.005	3.62	PIFA	IPEX	1.15	300
2	INPAQ	DAMA1BM30000402	3.2	Dipole	SMA Reverse	0.5	290
3	TAOGLAS	FXP74.07.0100A	4	PIFA	IPEX	NA	100

## 2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	258.821	4	20	0.12934	1

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