

**Dexatek Technology Ltd.**  
**15F.,NO.81,Sec.1,Sintai 5th Rd., Sijhih Dist.,New Taipei City 221, Taiwan**

Federal Communications Commission  
Authorization and Evaluation Division  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

### **Applicant's declaration concerning RF Radiation Exposure**

We hereby indicate that the product  
Product description: AirBeats HD WS-01  
Model No: OEO5116

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

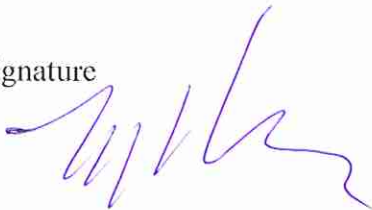
A safety statement concerning minimum separation distances from enclosure of the Product : AirBeats HD WS-01 will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21502-14830-C-1 and the accompanying calculations.

Company: Dexatek Technology Ltd.  
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Date: March 17,2015

Signature





Registration number: W6M21502-14830-C-1  
 FCC ID: SZY-SA5116

**3.2 Equivalent isotropic radiated power**

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain (Directional gain)

EIRP = 20.85 dBm + 2.3 dBi  
 = 23.15 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

**3.3 RF Exposure Compliance Requirements**

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

- S – Power Density
- P – Output power ERP
- R – Distance
- D – Cable Loss
- AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	121.6186	Peak value
D	dB		
AG	dBi	2.3	
G		1.6982	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.0411	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm <sup>2</sup> )
1500 – 100.000	1.0