



## MPE calculation

**Model number: GEN3 HIGH A1**  
**FCC ID 2AHPN-BE2826**  
**IC: 6434C-BE2826**

According to the RSS-102, issue 5 Standard and to FCC §15.247(b)(4) and §1.1307(b)(1), systems operation under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

### MPE Prediction

| <i>Frequency range (MHz)</i> | <i>Power density (mW/cm<sup>2</sup>)</i> |
|------------------------------|------------------------------------------|
| 400 - 1500                   | f/1500                                   |
| 1500 - 100000                | 1 mW/cm <sup>2</sup>                     |

Equation for calculation

$$S = P * G / (4\pi R^2)$$

Where:     S – Power density  
              P – Power input to antenna  
              G – Antenna gain relative to isotropic radiator  
              R – Distance to antenna

Maximum peak output power at antenna terminal: +15.9 dBm (38.90 mW)

Antenna gain: -9.1 dBi

Prediction distance: 20cm

MPE limit for General Population/Uncontrolled Exposure: 1 mW/cm<sup>2</sup>

### Calculation's results:

Power density at 20cm distance: **0.0010 mW/cm<sup>2</sup>**

Best Regards

A handwritten signature in blue ink that reads 'Imad Hjiye'.