



MDE\_GNNET\_1310\_MPE

**FCC ID BCE- WHB005BS , BCE- WHB005BSU  
IC ID: 2386C- WHB005BS , 2386C- WHB005BSU**

**Maximum Permissible Exposure**

as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Power density (mW/cm <sup>2</sup> )
300 – 1,500	f/1500
1,500 – 100,000	1.0

**Calculations 2.4 GHz band**

The output power at antenna input terminal: 15.95 dBm

Prediction distance **R**:        20 cm  
Prediction frequency:        2441 MHz  
Antenna Gain:                1.5 dBi  
MPE limit **S**:                1 mW/cm<sup>2</sup>

Equation OET bulletin 65, page 18, edition 97-01:  $S = P \cdot G / (4\pi R^2)$

S = power density  
P = power input to the antenna  
G = power gain of the antenna in the direction of interest relative to an isotropic radiator  
R = distance to the centre of radiation of the antenna

Maximum Power density	Limit	Verdict
0.0111 mW/cm <sup>2</sup>	1.0 mW/cm <sup>2</sup>	Pass

For OET bulletin 65 and RSS-102 Issue 4.

Yours sincerely

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