

MPE calculation

Model number: GEN3 HIGH FCC ID 2AHPN-BE2820 IC: 6434C-BE2820

cording to the RSS-102, issue 5 Standard and to FCC \$15.247(b)(4

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

Frequency range (MHz)	Power density (mW/cm ²)
400 - 1500	f/1500
1500 - 100000	1 mW/cm ²

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: +19.1 dBm (81.3 mW)

Antenna gain: 1.18 dBi Prediction distance: 20cm

MPE limit for General Population/Uncontrolled Exposure: 1 mW/cm²

Calculation's results:

Power density at 20cm distance: 0.0212 mW/cm²

Best Regards Imad Hije