



RF EXPOSURE INFORMATION

Model: 2.4GZ
FCC ID: EO924GZ
IC ID: 864D-24GZ

General Information

Applicant: Itron, Inc.
Device Category: Fixed
Environment: General / Uncontrolled Exposure

Technical Information

Antenna Type: Omni
Antenna Gain: 0 dBi
Transmitter Power (conducted): 20.94 mW
Frequency: 2405 MHz
Exposure Conditions: 20 centimeters (0.2 m)
FCC Limit: $f > 1500$: 1 mW/cm^2 ; Canadian Limit: $f = 1500 \text{ to } 15000 \text{ MHz} = 10 \text{ W/m}^2$

MPE Calculation

$$\text{Power Density: } P_d = (\text{mW/cm}^2) = \frac{P \times G}{4 \times \pi \times R^2}$$

$P = 20.94 \text{ mW}$
 $G = 0 \text{ dBi} = 1$
 $R = 20 \text{ cm}$
 $P_d = 0.0042 \text{ mW/cm}^2$ ($0.0042 \times 0.1 = 0.00042 \text{ W/m}^2$)
Minimum Safe Distance is 1.3 cm.

Use Guidelines

The installation manual contains the following text about compliance with the RF exposure requirements:

"This device must be permanently mounted such that it retains a distance of 20 centimeters (7.9 inches) from all persons in order to comply with FCC and Industry Canada RF exposure levels."

Conclusion

When installed and operated per the manufacturer's instructions, this device complies with MPE requirements by providing adequate separation between the radiating structure of the device and the general / uncontrolled population.

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