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RF Exposure Information

Model: 100G2
FCC ID: EO9100G2
IC ID: 864A-100G2

Standards

FCC 1.1310 & 2.1091
IC RSS-102

General Information

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

Technical Information

Antenna Type: Omni
Antenna Gain: 0.3 dBi
Transmitter Conducted Power: 250 mW
Frequency: 908 MHz
Exposure Conditions: 20 centimeters
Standard Limit: $f / 1500 = 0.61 \text{ mW/cm}^2$
 $\text{mW/cm}^2 * 10 = \text{W/m}^2 = 6.1 \text{ W/m}^2$

MPE Calculation

$P = 159.6 \text{ mW}$
 $G = 0.3 \text{ dBi} = 1.072 \text{ numeric}$
 $r = 20 \text{ cm}$
Power Density: $P_d = (\text{mW/cm}^2) = (PxG)/4\pi r^2 = 0.0533 \text{ mW/cm}^2 \text{ or } 0.533 \text{ W/m}^2$

Use Guidelines

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

RF EXPOSURE

To comply with FCC requirements, maintain a separation distance of at least 20 cm between the antenna and all persons.

Conclusion

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