



RF Exposure Information – ISM Transmitter

Model: DCU-5310
FCC ID: EO9DCU5310
IC ID: 864A-DCU5310

General Information

Applicant: Itron, Inc.
Device Category: Mobile
Environment: Occupational / Controlled Population

Technical Information

Antenna Type: Omni
Antenna Gain: 5 dBi
Transmitter Conducted Power: 810.96 mW
Max Frequency: 923.8 MHz
Limit: $f / 300 = 3.079 \text{ mW/cm}^2$

MPE Calculation

Power Density: $P_d = (\text{mW/cm}^2) = (P \times G) / 4\pi r^2$
 $P = 810.96 \text{ mW}$
 $G = 5 \text{ dBi} = 3.16$

Solving for r: The minimum safe distance to meet the limit is 8.14 cm, which is less than the minimum 20cm allowed for MPE calculations and also less than the 40cm minimum distance that is specified in the users manual.

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 40 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 Occupational / Controlled Population.