

Intelligent Systems Module for the three DS Development Support Tool

RF Exposure

Maximum Permissible Exposure (MPE) FCC Rules CFR47 1.1307, 1.1310, 2.1091, 2.1093 and Industry Canada RSS 102

| Distance | MPE | Remark |
|----------|-----------------------------|------------|
| 0.2401cm | 1mW/cm ² | Worst Case |
| 20cm | 0.000144mw/ cm ² | |

- FCC ID : SRX-ISNWIRE
- Model : NTR EMU WIRELESS ADP
- Operation Frequency : 2412 – 2462 MHz
- Antenna Gain : 0.74 (-1.3 dBi, Typical)
- Modulation : Direct Sequence Spread Spectrum Transmitter
- Output Power (Maximum) : 0.98mW (-0.1dBm)

• MPE Calculation

| Frequency | Output Power | Antenna Gain | MPE @20cm | Limit | Distance |
|-----------|--------------|--------------|-------------------------|-------------------------|----------|
| [MHz] | [mW] | [dBi] | [mW/ cm ²] | [mW/ cm ²] | [cm] |
| 2412 | 0.95 | -1.3 | 0.000141 | 1.0 | 0.2373 |
| 2437 | 0.98 | -1.3 | 0.000144 | 1.0 | 0.2401 |
| 2462 | 0.98 | -1.3 | 0.000144 | 1.0 | 0.2401 |

Above test results of MPE at 20cm is calculated from a formula

$$\text{MPE [mW/ cm}^2\text{]} = (\text{Output Power} \times \text{Antenna Gain}) / (4 \times \pi \times r^2)$$

(pi : 3.1416, r : distance between observation point and center of the radiator in cm)

[Tester]

Signature



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