

## 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 <sup>2</sup>	Worst Case
20cm	0.000144mw/ cm <sup>2</sup>	

- 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 [ MHz ]	Output Power [ mW ]	Antenna Gain [ dBi ]	MPE @20cm [ mW/ cm <sup>2</sup> ]	Limit [ mW/ cm <sup>2</sup> ]	Distance [ 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

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

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

[ Tester ]

Signature



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