

## RF Exposure Declaration

FCC ID: XV7MDM-GCA1-100

Model No: MDM-GCA1B1

We, SANDEN CORPORATION, hereby declare that RF exposure evaluated by MPE (Maximum Permissible Exposure) calculation is complied with FCC OET Bulletin 65. The calculation formula of the MPE distance is below.

$$S = P * G / 4 \pi R^2$$

**Rearranging terms to calculate the MPE Distance**

$$R = (P * G / 4 \pi S)^{1/2}$$

&lt;GSM850&gt;

R = MPE Distance in cm

P = Power in mW (32.8dBm = 1905.5 mW @848.8 MHz)

G = Antenna Gain in numeric (1.64 = 2.15 dBi, Max. Antenna Gain)

S = Power Density Limit in mW/cm<sup>2</sup>

(Max. permissible exposure limit for General Population / Uncontrolled Exposure.

$$S = f[\text{MHz}] / 1500 = 848.8/1500 = 0.57\text{mW/cm}^2$$

Then MPE Distance is 20.9 cm (< 30cm).

&lt;GSM1900&gt;

R = MPE Distance in cm

P = Power in mW (29.3dBm = 851.1 mW @1880.0 MHz)

G = Antenna Gain in numeric (1.64 = 2.15 dBi, Max. Antenna Gain)

S = Power Density Limit in mW/cm<sup>2</sup>(1 mW/cm<sup>2</sup>, Max. permissible exposure limit for General Population / Uncontrolled Exposure)

Then MPE Distance is 10.5 cm (< 30cm).

Date: 01 Dec, 2009

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