

Declaration on radiation safety standard conformance

Samsung Electro-Mechanics Co., LTD
314, Maetan 3 –Dong, Paldal-Gu, Suwon, Gyunggi-Do
Suwon
Korea

declares that the following product:

Description: 2.4 GHz Direct Sequence Spread Spectrum Transceiver
Manufacturer: Samsung
Brand: Samsung
Type/model number: SWL-2300U
FCC ID: E2XSWL-2300U

has a maximum e.i.r.p. of 14.8 dBm (30.2 mW, including a maximum antenna gain of +0 dBi); the worst case prediction of power density (100% reflection) at 20 cm distance (S) can be calculated as follows:

$$S = \text{EIRP} / 4 * \pi * R^2 \quad : \quad (\text{power density without reflection})$$

$$S = 2^2 * \text{EIRP} / 4 * \pi * R^2 \quad : \quad (\text{power density with 100\% reflection})$$

$$S = 2^2 * \text{EIRP} / 4 * \pi * R^2 \quad = \quad 30.2 \text{ mW} / \pi * (20\text{cm})^2 = \quad 0.024 \text{ mW/cm}$$

(limit = 1.0 mW/cm)

This means that according to OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01), the equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of CFR 47 Part 15.247(b)(4).