

RF Exposure / MPE Calculation

No. : 10240264H

Applicant : Sony Computer Entertainment Inc.
Type of Equipment : Computer Entertainment System
Model No. : CECH-4301x(WLAN part)
FCC ID : AK8CBEH19C1

Sony Computer Entertainment Inc. declares that Model : CECH-4301x(WLAN part) complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "CECH-4301x(WLAN part)" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 204.64 mW (Maximum peak output power)
G = 2.00 Numerical Antenna gain; equal to 3.00 dBi
r = 20.0 cm

For: CECH-4301x(WLAN part)

$$S = 0.08123 \text{ mW/cm}^2$$

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