INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for GAMEPAD CLASSIC (2 BUTTON WIRELESS CONTROLLER FOR NES CLASSIC)(INCLUDES RECEIVER)-GRAY model: DGUN-2927 operating at 2.4GHz band. It is powered by DC 3.0V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: -5.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $91.0dB\mu V/m$ at 3m in the frequency 2405MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -4.23dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $89.1 dB\mu V/m$ at 3m in the frequency 2475 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -6.13dBm which is within the production variation.

The maximum conducted output power specified is -2.0dBm = 0.6mW The source- based time-averaging conducted output power = 0.6* Duty Cycle mW < 0.6mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.475) mW
- = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

The duration of one cycle = 7.9832ms Effective period of the cycle = 187.6μ s = 0.1876ms DC = 0.1876ms/7.9832ms = 0.0235 or 2.35%

FCC ID: TW8DI8004