

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for SUPER GAMEPAD FOR SNES CLASSIC model: DGUN-2960 operating at 2.4GHz band. It is powered by DC 3.0V (2 x 1.5V AAA batteries) or via USB port (DC 5V) by adapter with AC 120V/60Hz input. For more details information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 1.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: 1.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 97.1dBμV/m at 3m in the frequency 2405MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 1.87dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.6dBuV/m at 3m in the frequency 2440MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 1.37dBm

which is within the production variation.

The maximum conducted output power specified is 4dBm = 2.5mW

The source- based time-averaging conducted output power

= $2.5 \cdot \text{Duty Cycle}$ mW < 2.5mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 \cdot 5 / \sqrt{2.475}$ mW

= 9.53mW

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 = 2.02899ms

Effective period of the cycle = 107.826μs = 0.107826ms

DC = 0.107826ms / 2.02899ms = 0.05314 or 5.314%

FCC ID: TW8DI8018A