

# Analysis Report

Report No.: 130521881HKG-009

The Equipment Under Test (EUT) is transceiver and it is a control hub for the control corresponding transceiver (i.e. RF socket). The EUT operates in the frequency is 921.250MHz (single channel). The EUT is powered by an external AC/DC adaptor (Model: FLD052-0501000-UV, Input: 100-240VAC, Output: 5.0VDC, 1.0A).

When the EUT is powered on, the red LED will accordingly. The blue LED that indicates LAN data transmission. The corresponding RF sockets will search and connect with the EUT for communication.

Antenna Type: Internal helical antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.5dB $\mu$ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 95.5dB $\mu$ V/m at 3m in frequency 0.92125GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.064\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 1.064mW.

The SAR Exclusion Threshold Level:

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

=  $3.0 \cdot 5 / \sqrt{0.92125} \text{ mW}$

= 15.63 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.