DEKRA

RF Exposure Evaluation Report

Product Name : Gerber Prime Box

Model No.   : GPB-6000

FCC ID   : 2AQO4GPB-6000

Applicant : Gerber Technology 2016 LTD

Address   : 75 Haerez St., Kfar Hanagid, Israel, 7687500

Date of Receipt   : Apr. 18, 2018

Date of Declaration : Aug. 14, 2018

Report No.   : 1880179R-RFUSP02V00

Report Version   : V1.0

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Product Name	Gerber Prime Box
Applicant	Gerber Technology 2016 LTD
Address	75 Haerez St., Kfar Hanagid, Israel, 7687500
Manufacturer	Philio Technology Corporation
Model No.	GPB-6000
FCC ID.	2AQO4GPB-6000
EUT Rated Voltage	AC 100-240V, 50/60Hz, 16A
EUT Test Voltage	AC 120V/60Hz
Trade Name	GERBER PRIME
Applicable Standard	FCC 47 CFR 1.1310
Test Result	Complied

Documented By   :
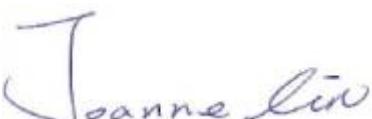
(Senior Adm. Specialist / Joanne Lin)

Tested By   :

(Engineer / Anson Lu)

Approved By   :

(Director / Vincent Lin)

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18℃ and 78％ RH.

1.3. Test Result of RF Exposure Evaluation

Product : Gerber Prime Box
Test Item : RF Exposure Evaluation

RF Exposure:

Operation Frequency	2412MHz-2462MHz
	2422MHz-2452MHz
Maximum Conducted output power	20.78 dBm
Antenna gain	0 dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
119.6741	0.023808

Power density is lower than the limit (0.6 mW/cm2).