

Maximum Permissible Exposure Report

FCC ID: 2ARP8-SG200

Report No. : BTL-FCCP-2-2005T134
Equipment : ZigBee Lighting Control Box
Model Name : SG200-C
Brand Name :



Applicant : Lumani Pte Ltd
Address : 71 Ayer Rajah Crescent #02-10/11 Singapore 139951
Manufacturer : Billion Electric Co., Ltd.
Address : 8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Accordinging : FCC Guidelines for Human Exposure IEEE C95.1

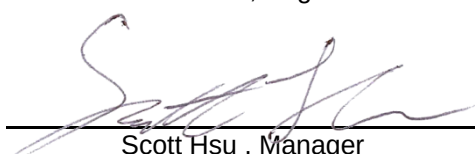
Date of Receipt : 2020/5/28
Date of Test : 2020/5/28~ 2020/6/22
Issued Date : 2020/6/24

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by :


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Approved by :


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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
1		C942-510009-A	Dipole	SMA Plug Reverse	1.8

TEST RESULTS

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum Conducted Output Power (dBm)	Maximum Conducted Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
2405	1.8	1.5136	7.67	5.8479	0.0018	1.0000

NOTE: The calculated distance is 20 cm.

End of Test Report