

Maximum Permissible Exposure Report

FCC ID: UFOOPN4000N

Report No. : BTL-FCCP-2-2106T009
Equipment : Bluetooth Barcode Scanner
Model Name : OPN-4000n
Brand Name : OPTICON
Applicant : OPTOELECTRONICS Co., Ltd.
Address : 4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan
Manufacturer : OPTOELECTRONICS Co., Ltd.
Address : 4-12-17, Tsukagoshi, Warabi-shi, Saitama Pref., 335-0002 Japan

FCC Rule Part(s) : FCC CFR Title 47, Part 2 (2.1091)
FCC Guidelines for Human Exposure IEEE C95.1

Date of Receipt : 2021/6/9
Date of Test : 2021/6/9~ 2021/9/28
Issued Date : 2022/2/7

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-2-2106T009	R00	Original Report.	2022/2/7

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	OPTOELECTRONICS CO., LTD.	2.4G PCB Antenna	PCB Layout	N/A	-0.86

Maximum RF OUTPUT POWER

Mode	Maximum Conducted Power (dBm)
BT	0.23

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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

CALCULATED RESULT

Band	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
BT	-0.86	0.8204	0.23	1.0544	0.00017217	1	Pass

Note:

1. The calculated distance is 20 cm.

End of Test Report