

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE149251

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Maximum Permissible Exposure Evaluation

FCC ID: 2AEP6XM-JPLB1S

1. Client Information

Applicant: HangZhou XiongMai Technology CO., LTD

Address: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

Manufacturer : HangZhou XiongMai Technology CO., LTD

Address : No.2 Dong Qiao Road, Dongzhou Industrial, Fuyang District,

Hangzhou, China

2. General Description of EUT

EUT Name		Smart Panoramic Car	mera Bulb
Models No.		XM-JPLB1S, XM-JPL	B2S
Model Difference			e only difference is model name for commercial
Product Description	· · · · ·	Operation Frequency 802.11b/g/n(HT20): 2 802.11n(HT40): 2422 Number of Channel: RF Output Power:	412MHz~2462MHz
13 7	M	Antenna Gain:	2 dBi Integral Antenna
(LOB)	1	Modulation Type:	802.11b:CCk,DQPSK,DBPSK; 802.11g:64-QAM,QPSK,BPSK 802.11n:64-QAM,16-QAM,QPSK,BPSK

TB-RF-075-1.0

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		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply		AC Voltage suppli	ed from power network.
Power Rating		Input: AC 100~24	0V,50/60Hz
Connecting I/O Port(S)	Ś	Please refer to the	e User's Manual

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MPE Calculations for WIFI

1. Antenna Gain:

Integral Antenna: 2 dBi.

2. EUT Operation Condition:

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

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

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

4. Test Result:

		١	Norst Max	imum MPI	E Result		
Mode	N _{TX}	Frequency (MHz)	Power (dBm) [P]	ANT Gain (dBi) [G]	Turn-up Power Tolerance (dB)	Distance (cm) [R]	Power Density (mW/ cm²) [S]
				2.4G			
802.11b	1	2462	8.40	2	±1	20	0.0027
802.11g	1	2437	7.98	2	±1	20	0.0025
802.11n (HT20)	1	2412	7.75	2	±1	20	0.0024
802.11n (HT40)	1	2422	7.24	2	±1	20	0.0021

Noto:

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)
300-1,500	F/1500

⁽¹⁾ N_{TX}= Number of Transmit Antennas

⁽²⁾ RF Output power specifies that Maximum Conducted Peak Output Power.



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1,500-100,000 1.0

For 802.11b/g/n (2412~2462 MHz) MPE limit S: 1 mW/ cm²

The MPE is calculated as 0.0027mW / cm² < limit 1 mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

--END OF REPORT----