



MPE REPORT

Report No.: SRTC2011-H024-E0098

Product Name: 2.4GHz Wireless Memory Card

Marketing Name: ez Share

Product Model: ES100

Applicant: LZeal Information Technology Co., Ltd.

Manufacturer: LZeal Information Technology Co., Ltd.

Specification: FCC Part2.1093

OET Bulletin 65 Supplement C[June 2001]

FCC ID: A7JEZS126

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

CONTENTS

1. General information	3
1.1 Notes of the test report	3
1.2 Information about the testing laboratory.....	3
1.3 Applicant's details	3
1.4 Manufacturer's details.....	3
1.5 Application details	4
1.6 Reference specification.....	4
1.7 Information of EUT	4
1.7.1 General information.....	4
1.7.2 EUT details	5
1.7.3 Auxiliary equipment details.....	5
2. Test information	6
2.1 Summary of the calculation results	6
2.2 Calculation result	7
2.2.1 Maximum Permissible Exposure (MPE)	7

1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
Tel: +86 10 68009181 +86 10 68009202
Fax: +86 10 68009195 +86 10 68009205
Email: wangjf@srrc.org.cn / wangjunfeng@srtc.org.cn

1.3 Applicant's details

Company: LZeal Information Technology Co., Ltd.
Address: F18, Unit 2, 530 Building, No. 100, Dicui Road, Liyuan
Development Zone, 214072
City: Wuxi City, Jiangsu Province
Country or Region: P.R. China
Grantee Code: A7J
Contacted person: Guo Gang
Tel: +86-510-8117 0199
Fax: +86-510-8117 0187
Email: guog@lzeal.com

1.4 Manufacturer's details

Company: LZeal Information Technology Co., Ltd.
Address: F18, Unit 2, 530 Building, No. 100, Dicui Road, Liyuan
Development Zone, 214072
City: Wuxi City, Jiangsu Province
Country or Region: P.R. China
Contacted person: Guo Gang
Tel: +86-510-8117 0199
Fax: +86-510-8117 0187
Email: guog@lzeal.com

1.5 Application details

Date of receipt of test sample: 01st Dec 2011

Date of test: 01st Dec 2011 to 20th Dec 2011

1.6 Reference specification

FCC Part2.1093, OET Bulletin 65 Supplement C [June 2001]

1.7 Information of EUT

1.7.1 General information

Name of EUT	2.4GHz Wireless Memory Card
FCC ID	A7JEZS126
Frequency range	2.4000GHz~2.4835GHz
Number of channel	13
Modulation type	DBPSK/DQPSK/CCK/BPSK/QPSK/16QAM/64QAM
Duplex mode	TDD
Channel spacing	5MHz
Emission Designator	5M00Q1D
Data rate	1Mbps/2Mbps/5.5Mbps/11Mbps/6Mbps/9Mbps/12Mbps/ 18Mbps/24Mbps/36Mbps/48Mbps/54Mbps/6.5Mbps/ 13 Mbps/19.5 Mbps/26 Mbps/39 Mbps/52 Mbps/ 58.5 Mbps/65 Mbps
Antenna type	Fixed Internal
Power Supply	USB docking card
Rated Power Supply Voltage	3.1V
HW Version	EZS-P2
SW Version	V2.1.0

1.7.2 EUT details

Product Name	Marketing Name	Product Model	Serial Number
2.4GHz Wireless Memory Card	ez Share	ES100	EZ1448000060AA1

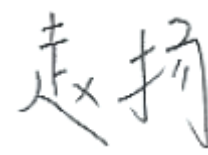
1.7.3 Auxiliary equipment details

Equipment	USB docking card
Manufacturer	LZeal Information Technology Co., Ltd.
Model Number	---

2. Test information

2.1 Summary of the calculation results

No.	Test case	FCC reference	Verdict
1	MPE Calculation	FCC Part2.1093, OET Bulletin 65 Supplement [June 2001]	Pass

This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab 	Checked by: Mr. Wang Junfeng Deputy director of the test lab 
Tested by: Mr. Zhao Yang Test engineer 	Issued date: <p style="text-align: center;">2012.02.03</p>

2.2 Calculation result

2.2.1 Maximum Permissible Exposure (MPE)

Limit:

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	100*	6
3.0-30	1842/f	4.89/f	(900/f ²) *	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	100*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

Calculation procedure:

In accordance with 47CFR FCC Part 2.1091, the product has been defined as a mobile device where a distance of 0.2m normally can be maintained between the user and product.

Calculation formula:

$$\text{Power Density: } P_d (\text{W/m}^2) = E^2/377$$

$$E (\text{V/m}) = (30 * P * G)^{0.5} / d$$

E: Electric Field Strength (V/m)

P: Peak RF Output Power (W)

G: Antenna Numeric Gain (Numeric)

d: Separation Distance Between the Radiator and Human Body (m)

So the calculation formula can be changed as:

$$P_d = (30 * P * G) / (377 * d^2)$$

Note:

The EIRP measurement was performed using the peak conducted power measurement in conjunction with the maximum declared antenna gain (-7dBi).

Calculation result:

Channel No.	Maximum conductd power(mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Verdict
1	177.01	0.0070	1.0	Pass
6	173.78	0.0069	1.0	Pass
11	177.83	0.0070	1.0	Pass