SPORTON INTERNATIONAL INC.



FCC TEST REPORT

REPORT NO.: F8N0406

FCC TEST REPORT

for

PART 15, SUBPART B CLASS B

EQUIPMENT: MOUSE

MODEL NO. : EasyMouse+ USB

FCC ID : FSUGMZG3

FILING TYPE : Original Grant

APPLICANT : KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,

Taipei Hsien, 241, Taiwan, R.O.C.

The test result refers exclusively to the test presented test model / sample.

 Without the written authorization of the test lab., the Test Report may not be copied.

SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL: 886-2-2696-2468

FCC ID

FSUGMZG3

PAGE NUMBER: 1 OF 22

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SPORTON INTERNATIONAL INC.



FCC TEST REPORT

REPORT NO.: F8N0406

CERTIFICATE NO.: F8N0406

CERTIFICATE OF COMPLIANCE

for

FCC PART 15, SUBPART B CLASS B

EQUIPMENT : MOUSE

MODEL NO. : EasyMouse+ USB

FCC ID : FSUGMZG3

APPLICANT : KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,

Taipei Hsien, 241, Taiwan, R.O.C.

I HEREBY CERTIFY THAT:

The measurement shown in this report were made in accordance with the procedures given in ANSI C63.4 -1992 and the energy emitted by this equipment was passed both radiated and conducted emissions Class B limits.

Testing was carried out on Nov. 05, 1998 at SPORTON International Inc.

SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

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1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST

1.1. APPLICANT

KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 241, Taiwan, R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT: MOUSE

MODEL NO.: EasyMouse+ USB

FCC ID: FSUGMZG3
TRADE NAME: Genius
DATA CABLE: Shielded

POWER SUPPLY TYPE: N/A

POWER CORD: N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

- The mouse device with its innovative shape will give you better comfort, qulity, and control over long of time. It has plug and play feature and is very easy to install.
- The mouse compatible with Windows 3.x / 95 / 98 environment.
- 400 DPI :
 - ⇒ High resolution, three-button mouse version.
- Supports Plug and Play Function:
 - Windows Shape Design :
 - 1). For smooth cursor movement.
 - 2). Intelligent and innovative shape.
 - MouseMate:
 - ⇒ Friendly interface lets you personalize the mouse cursor.
 - Models:
 - ⇒ USB version.

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2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The SONY monitor, DELL keyboard, HP printer, ACEEX modem and EUT were connected to the FIC P.C.
- c. Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 1000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- MONITOR (SONY)

FCC ID

: AK8GDM17SE2T

Model No.

: GDM-17SE2T

Serial No.

: SP1006

Data Cable

: Shielded, 360 degree via metal backshells, 1.7m

Power Supply Type

Switching

Power Cord

Non-shielded

Support Device 2. --- KEYBOARD (DELL)

FCC ID

: GYUM92SK

Model No.

: AT101 (DE8M)

Serial No.

: SP1009

Data Cable

: Shielded, 360 degree via metal backshells, 1.9m

Support Device 3. --- PRINTER (HP)

FCC ID

: B94C2642X

Model No.

: DESKJET 400

Serial No.

: SP0037

: Linear

Data Cable

: Shielded, 360 degree via metal backshells, 1.35m

Power Supply Type

Power Cord

: Non-shielded

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FCC ID

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Support Device 4. -- MODEM (ACEEX)

FCC ID

: IFAXDM1414

Model No.

: DM1414

Power Supply Type : Linear, AC Adapter

Power Cord

: Non-shielded

Serial No.

: SP1019

Data Cable

: Shielded, 360 degree via metal backshells, 1.15m

Support Device 5. --- P.C. (FIC)

FCC ID

: N/A

Model No.

: P2L97

Serial No.

: SP1005

Data Cable

: Shielded

Power Cord

: Non-shielded

Power Supply Type : Switching

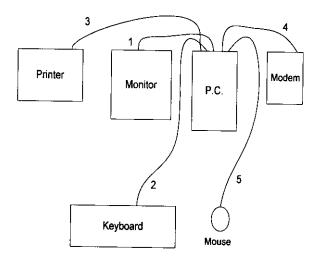
(Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.)

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2.3. CONNECTION DIAGRAM OF TEST SYSTEM



- The I/O cable was connected from PC to the support device 1.
- The I/O cable was connected from PC to the support device 2.
- The I/O cable was connected from PC to the support device 3. 3.
- The I/O cable was connected from PC to the support device 4. 4.
- The I/O cable was connected from PC to the EUT.

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3. TEST SOFTWARE

At the same time, an executive program, EMITEST.EXE under WIN 98, which generates a complete line of continuously repeating " H " pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the floppy disk drive and runs it.
- c. The PC sends " H " messages to the monitor, and the monitor displays " H " patterns on the screen.
- d. The PC sends " H " messages to the printer, then the printer prints them on the paper.
- The PC sends " H " messages to the modem.
- f. The PC sends " H " messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
- g. Repeat the steps from b to f.

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4. GENERAL INFORMATION OF TEST

4.1. TEST FACILITY

This test was carried out by SPORTON INTERNATIONAL INC.

Test Site Location

: No. 30-1, Lin 6, Diing-Fwu Tsuen, Lin-Kou-Hsiang,

Taipei Hsien, Taiwan, R.O.C.

TEL: 886-2-2601-1640, FAX: 886-2-2601-1695

4.2. STANDARD FOR METHODS OF MEASUREMENT

ANSI C63.4-1992

4.3 .TEST IN COMPLIANCE WITH

FCC PART 15, SUBPART B CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

a. Conduction : from 450 KHz to 30 MHz

b. Radiation : from 30 MHz to 1000 MHz.

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 3M.

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5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 450 KHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in Figure 5-3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.1. MAJOR MEASURING INSTRUMENTS

Stop Frequency

Test Receiver (HP 8591EM)

Attenuation 0 dB

Start Frequency 0.45 MHz

30 MHz Step MHz 0.007 MHz

IF Bandwidth 9 KHz

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5.2. TEST PROCEDURES

The EUT was placed 0.4 meter from the conducting wall of the shielding room and was kept at least 80 centimeters from any other grounded conducting surface.

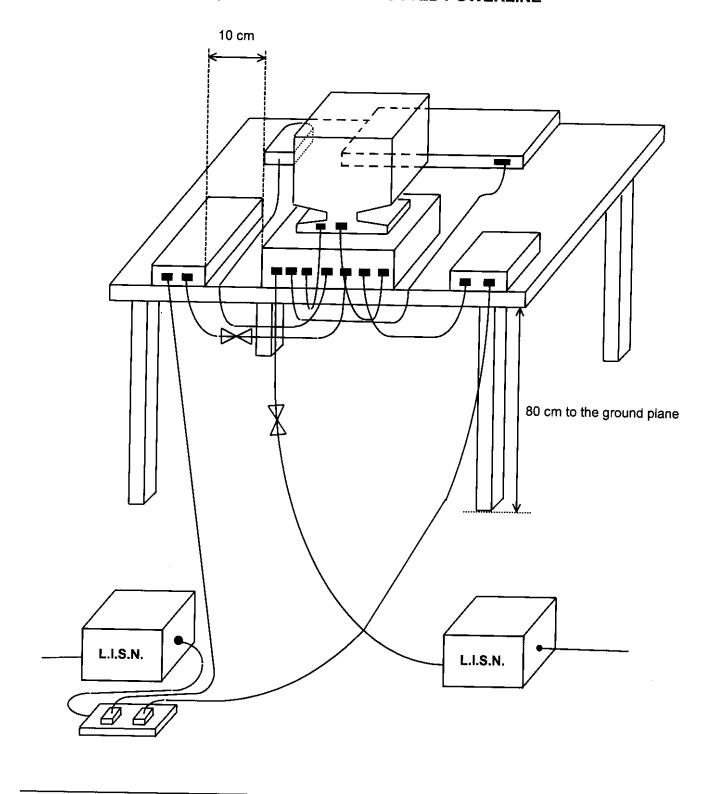
- Connect EUT to the power mains through a line impedance stabilization network (LISN). b.
- All the support units are connect to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument. d.
- The FCC states that a 50 ohm , 50 microhenry LISN should be used. e.
- Both sides of AC line were checked for maximum conducted interference. f.
- The frequency range from 450 KHz to 30 MHz was searched. g.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold h. Mode.
- If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be retested on by one using the quasi-peak method and reported.

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5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



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5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

Frequency Range of Test: from 0.45 MHz to 30 MHz

All emissions not reported here are more than 10 dB below the prescribed limit.

Temperature : 22℃

Relative Humidity: 53 % RH Test Date: Nov. 05, 1998

The Conducted Emission test was passed at Line 11.77 MHz / 40.00 dBuV.

Frequency	Line /	Meter Reading		Lim	its	Margin
(MHz)	Neutral	(dBuV) (uV)		(dBuV)	(uV)	(dB)
11.77	Line	40.00	100.00	48.00	251.19	-8.00
23.53	Line	38.20	81.28	48.00	251.19	-9.80
0.53	Neutral	29.40	29.51	48.00	251.19	-18.60
11.77	Neutrai	39.00	89.13	48.00	251.19	-9.00
19.61	Neutrai	31.10	35.89	48.00	251.19	-16.90
23.53	Neutrai	39.00	89.13	48.00	251.19	-9.00

Test Engineer:

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6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 1000 MHz were measured with a bandwidth of 120 KHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. MAJOR MEASURING INSTRUMENTS

Amplifier (HP 8447D) Attenuation

0 dB RF Gain 25 dB

Signal Input 0.1 MHz to 1.3 GHz

Spectrum Analyzer (HP 8568B)

Attenuation 0 dB Start Frequency 30 MHz Stop Frequency 1000 MHz Resolution Bandwidth

1 MHz Video Bandwidth 1 MHz

Signal Input 100 Hz to 1.5 GHz

Quasi-Peak Adapter (HP 85650A) Resolution Bandwidth 120 KHz

Frequency Band 30 MHz to 1 GHz

Quasi-Peak Detector ON for Quasi-Peak Mode

OFF for Peak Mode

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6.2. TEST PROCEDURES

The EUT was placed on a rotatable table top 0.8 meter above ground.

The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a b.

variable height antenna tower.

The table was rotated 360 degrees to determine the position of the highest radiation.

The antenna is a half wave dipole and its height is varied between one meter and four meters above d.

ground to find the maximum value of the field strength both horizontal polarization and vertical

polarization of the antenna are set to make the measurement.

For each suspected emission the EUT was arranged to its worst case and then tune the antenna

tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold

Mode.

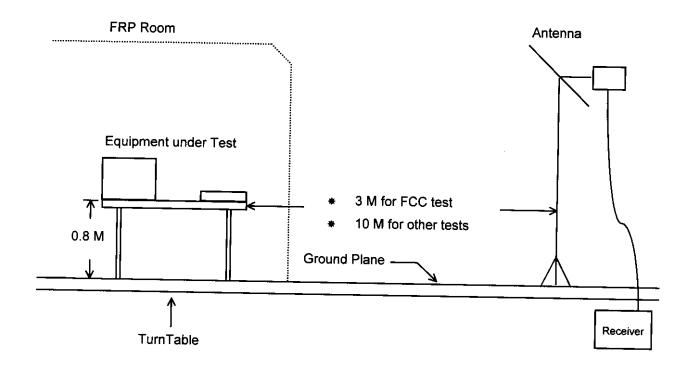
If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will

be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB

margin will be repeated one by one using the quasi-peak method and reported.

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6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



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6.4. TEST RESULT OF RADIATED EMISSION

Equipment meets the technical specifications of 15.109

Frequency Range of Test: from 30 MHz to 1000 MHz

Test Distance : 3 MTemperature : 25°C

Relative Humidity: 65 % RHTest Date: Nov. 05, 1998

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Sample Calculation at 47.40 MHz
 Corrected Reading = 1.82 + 1.00 + 27.13 = 29.95 (dBuV/m)

The Radiated Emission test was passed at minimum margin Vertical 452.00 MHz / 40.32 dBuV

Antenna Height 2.0 Meter, Turntable Degree 177°.

Frequency		Antenna	Cable	Reading	Lim	nits	Emission	Level	Margin
(MHz)	Polarity	Factor (dB)	Loss (dB)	(dBuV)	(dBuV)	(uV)	(dBuV)	(uV)	(dB)
47.40	н	1.82	1.00	27.13	40.00	100	29.95	31.44	-10.05
432.80	н	22.36	3.73	14.00	46.00	200	40.09	101.04	-5.91
48.10	V	1.98	1.00	29.17	40.00	100	32.15	40.50	-7.85
63.00	V	4.84	1.20	26.69	40.00	100	32.73	43.30	-7.27
312.00	V	18.06	3.10	18.65	46.00	200	39.81	97.84	-6.19
452.00	V	22.40	3.81	14.11	46.00	200	40.32	103.75	-5.68

Test Engineer:

William Lee

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

8. LIST OF MEASURING EQUIPMENT USED

[CE-EMI]

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver (site 2)	НР	8591EM	3710A01187	9 KHz - 18 GHz	Sep. 15, 1998	Conduction
LISN (EUT) (site 2)	Telemeter	NNB-2/16Z	98009	50 ohm / 50 uH	Jan. 29, 1998	Conduction
LISN (Support Unit) (site 2)	ЕМСО	3810/2NM	9703-1839	50 ohm / 50 uH	Jul. 06, 1998	Conduction
Quasi-peak Adapter (site 3)	НР	85650A	2811A01116	9KHz -1 GHz	Jul. 19, 1998	Radiation
Amplifier (Site 3)	HP	8447D	2944A09068	0.1MHz -1.3GHz	Aug. 27, 1998	Radiation
Spectrum Analyzer (site 3)	HP	8568B	2732A04100	100Hz – 1.5GHz	July 19, 1998	Radiation
Bilog Antenna (Site 3)	CHASE	CBL6112A	2320	30MHz -2GHz	Sep. 11, 1998	Radiation
Half-wave dipole antenna (Site 3)	EMCO	3121C	9705-1285	28 M - 1GHz	May 19, 1998	Radiation
Turn Table (site 3)	EMCO	2080	9711-2022	0 ~ 360 degree	N/A	Radiation
Antenna Mast (site 3)	EMCO	2075	9710-2101	1 m- 4 m	N/A	Radiation

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7. ANTENNA FACTOR AND CABLE LOSS

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18SUED DATE : Nov. 23, 1998

SPORTON International Inc. TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

6.4. TEST RESULT OF RADIATED EMISSION

Equipment meets the technical specifications of 15.109

Frequency Range of Test: from 30 MHz to 1000 MHz

Test Distance : 3 M
 Temperature : 25°C

Relative Humidity: 65 % RHTest Date: Nov. 05, 1998

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Sample Calculation at 47.40 MHz
 Corrected Reading = 1.82 + 1.00 + 27.13 = 29.95 (dBuV/m)

The Radiated Emission test was passed at minimum margin Vertical 452.00 MHz / 40.32 dBuV Antenna Height 2.0 Meter , Turntable Degree 177°.

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Frequency		Antenna	Cable	Reading	Lim	its	Emission	Level	Margin
(MHz)	Polarity	Factor (dB)	Loss (dB)	(dBuV)	(dBuV)	(uV)	(dBuV)	(uV)	(dB)
47.40	Н	1.82	1.00	27.13	40.00	100	29.95	31.44	-10.05
432.80	Н	22.36	3.73	14.00	46.00	200	40.09	101.04	-5.91
48.10	٧	1.98	1.00	29.17	40.00	100	32.15	40.50	-7.85
63.00	V	4.84	1.20	26.69	40.00	100	32.73	43.30	-7.27
312.00	v	18.06	3.10	18.65	46.00	200	39.81	97.84	-6.19
l,	V	22.40	3.81	14,11	46.00	200	40.32	103.75	-5.68
452.00		22.40	<u> </u>			<u> </u>		-	

Test Engineer:

Villian Dec

William Lee

SPORTON International Inc. TEL: 886-2-2696-2468 FCC ID FSUGMZG3
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