EXHIBIT B

SPORTON INTERNATIONAL INC.





FCC TEST REPORT

REPORT NO.: F851102

FCC TEST REPORT

for

PART 15, SUBPART B CLASS B

Equipment : MOUSE

MODEL NO.: NetScroll USB

FCC ID : FSUGMZFX

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.

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ISSUED DATE : Jul. 02, 1998

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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 May. 11, 1998 at SPORTON International Inc. in LIN KOU.

President

SPORTON International Inc.

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

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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.: NetScroll USB

FCC ID:FSUGMZFX

TRADE NAME :GENIUS

DATA CABLE : Shielded

POWER SUPPLY TYPE: N/A

POWER CORD: N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

- · Compatible with all major application software.
- Ergonomic Design.
- Opto-mechanical Design.
- Hi-Resolution 400 DPI (up to 4000 DPI by software).
- Micro-switch Button.
- High performance & reliability.
- For USB Port.

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2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

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 DELL keyboard, SONY monitor, HP printer, GENIUS mouse and ACEEX modem were connected to the F.I.C PC.
- Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 1000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- PERSONAL COMPUTER (F.I.C)

FCC ID

.N/A

Model No.

:P2L97

Serial No.

:SP1040

Data Cable

:Shielded, 360 degree via metal backshells.

Power Supply Type : Switching

Power Cord

:Shielded

Remark: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Device 2. --- MODEM (ACEEX)

FCC ID

:IFAXDM1414

Model No.

:DM1414

Serial No.

:SP0016

Data Cable

:Shielded, 360 degree via metal backshells

Power Supply Type :Linear

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Support Device 3. --- PRINTER (HP)

FCC ID

: B94C2642X

Model No.

: Desk Jet 400

Serial No.

:SP0004

Data Cable

:Shielded, 360 degree via metal backshells

Power Supply Type :Linear

Support Device 4. --- MONITOR (SONY)

FCC ID

:AK8GDM17SE2T

Model No.

:GDM-17SE2T

Serial No.

:SP1034

Data Cable

:Shielded

Power Supply Type : Switching

Power Cord

:Non-shielded

Support Device 5. --- KEYBOARD (DELL)

FCC ID

:GYUM92SK

Model No.

:AT101

Serial No.

:SP1008

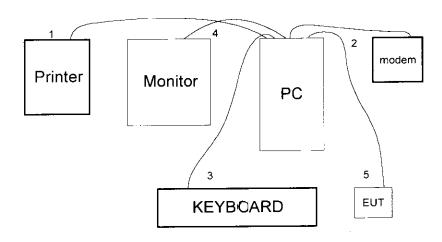
Data Cable

:Shielded, 360 degree via metal backshells

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2.3. CONNECTION DIAGRAM OF TEST SYSTEM



- 1. The I/O cable is connected to the support device 3.
- 2. The I/O cable is connected to the support device 2.
- 3. The I/O cable is connected to the support device 5.
- 4. The I/O cable is connected to the support device 4.
- 5. The data cable is connected to the EUT.

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3. TEST SOFTWARE

An executive program, EMITEST.EXE under WIN98, which generates a complete line of continuously repeating "H" pattern is 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.
- e. The PC sends " H " messages to the modem.
- f. The PC sends "H" messages to the internal Hard Disk, then 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. in an openarea test site.

Openarea 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 MHzb. 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

Test Receiver	HP85462A
Attenuation	0 dB
Start Frequency	0.45 MHz
Stop Frequency	30 MHz
Step MHz	0.007 M Hz
IF Bandwidth	9 KHz

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5.2. TEST PROCEDURES

a. 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.

c. Connect EUT to the power mains through a line impedance stabilization network (LISN).

c. All the support units are connect to the other LISN.

d. The LISN provides 50 ohm coupling impedance for the measuring instrument.

e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.

f. Both sides of AC line were checked for maximum conducted interference.

g. The frequency range from 450 KHz to 30 MHz was searched.

h. Set the test-receiver system (HP receiver 85462A) 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

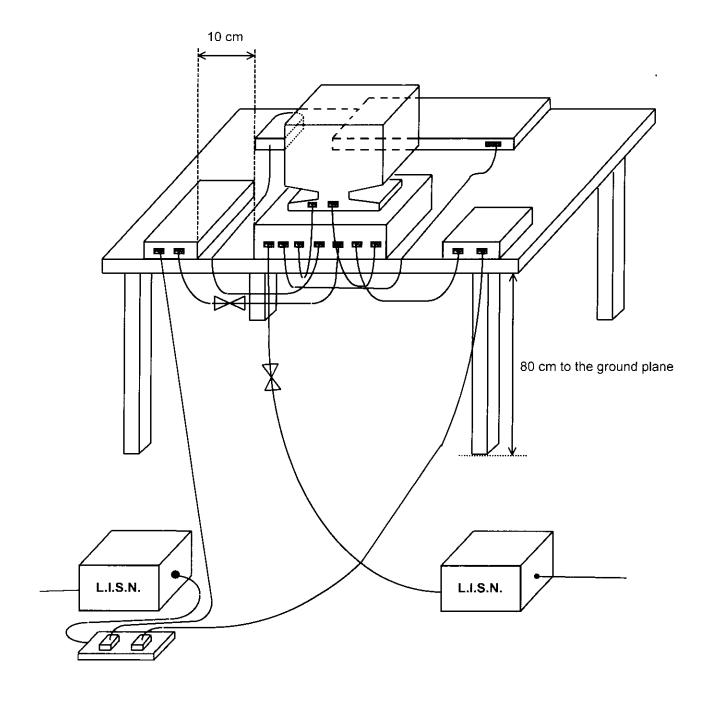
be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB

margin will be 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

Temperature : 27^{*}℃

Relative Humidity: 47% RH

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

Test Date: MAY. 11, 1998

The Conducted Emission test was passed at minimum margin LINE 20.54 MHz / 38.90 dBuV.

Frequency	Line / Neutral	Meter Reading		Limits		Margin
(MHz)		(dBuV)	(uV)	(dBuV)	(uV)	(dB)
0.15	L	37.10	71.61	48.00	251.19	-10.90
8.24	L	23.20	14.45	48.00	251.19	-24.80
20.54	L	38.90	88.10	48.00	251.19	-9.10
24.59	L	28.60	26.92	48.00	251.19	-19.40
0.51	N	37.10	71.61	48.00	251.19	-10.90
20.54	N	36.60	67.61	48.00	251.19	-11.40

Test Engineer:

ALEX WU

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6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 1000MHz 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

6.1. MAJOR MEASURING INSTRUMENTS

RF Preselector

maximum radiated emissions.

Attenuation 0 dB

RF Gain 20 dB

Signal Input 2 (for 20 MHz to 2 GHz)

Spectrum Analyzer
 8568B

Attenuation 0 dB

Start Frequency 30 MHz
Stop Frequency 1000MHz

Resolution Bandwidth 1 MHz
Video Bandwidth 1 MHz

Signal Input 1 (for 100Hz to 1.5 GHz)

Quasi-Peak Adapter

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

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

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

variable height antenna tower.

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

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

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.

e. 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 (HP 8568B) to Peak Detect Function and specified bandwidth with

Maximum Hold Mode.

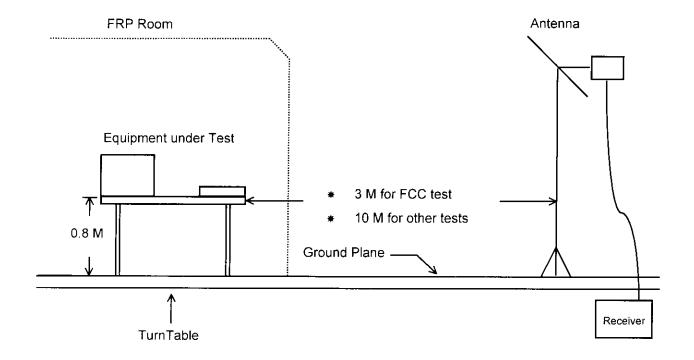
g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will

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 M
Temperature : 33 C

Relative Humidity :25% RHTest Date :MAY. 08, 1998

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

Sample Calculation at 175.90MHz
 Corrected Reading = 12.69+ 2.26+ 17.95= 32.91(dBuV/m)

Frequency		Antenna	Cable	Reading	Limits		Emission	Level	Margin
	Polarity	Factor	Loss						
(MHz)		(dB)	(dB)	(dBuV)	(dBuV)	(uV)	(dBuV)	(uV)	(dB)
175.90	V	12.69	2.26	17.95	43.50	150	32.91	44.21	-10.59
40.40	V	0.57	0.94	30.18	40.00	100	31.70	38.46	-8.30
84.70	Н	7.50	1.40	22.63	40.00	100	31.53	37.71	-8.47
175.70	Н	12.68	2.26	14.77	43.50	150	29.71	30.58	-13.79
133.30	٧	10.96	1.84	16.03	43.50	150	28.83	27.64	-14.67
233.60	Н	14.85	2.47	12.42	46.00	200	29.74	30.69	-16.26

Test Engineer: William Les

WILLIAM LEE

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7. ANTENNA FACTOR AND CABLE LOSS

Frequency (Mhz)	Antenna Factor (dB)	Cable Loss (dB)
30	-2.20	0.80
35	-0.70	0.82
40	0.51	0.94
45	1.30	1.00
50	2.39	1.00
55	3.14	1.11 1.20
60	4.40	1.20
65	5.14	1.20
70	5.59	1.30
75	6.11	1.40
80	7.10 7.53	1.40
85	7.53 8.22	1.40
90	8.80	1.40
95	9.36	1.50
100	10.11	1.60
110 120	10.41	1.70
130	10.74	1.80
140	11.42	1.91
150	11.91	2.01
160	12.25	2.01
170	12.22	2.21
180	13.02	2.30
190	13.50	2.30
200	14.05	2.40
220	14.31	2.40
240	15.11	2.50
260	17.11	2.61
280	17.50	2.70
300	17.99	3.11
320	18.10	3.10
340	19.13	3.20
360	20.14	3.30
380	21.81	3.40
400	22.29	3.60
450	22.40	3.80
500	22.31	4.10
550	23.42	4.40
600	24.01	4.60
650	25.11	5.00
700	26.00	5.30
750	26.51	5.51 5.70
800	27.10	5.70
850	27.51	5.90
900	27.90	6.20
950	30.01	6.30 6.40
1000	29.00	6.40

 \Re Remark: For frequency above 1000 MHz, we used low cable loss BNC cable to test.

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8. LIST OF MEASURING INSTRUMENTS USED

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Receiver RF section (site 1)	HP	85462A	3325A00108	9 KHz - 6.5 GHz	Oct. 22, 1997	Conduction
RF Filter section (site 1)	HP	85460A	3308A00104	9 KHz - 6.5 GHz	Oct. 22. 1997	Conduction
LISN (EUT) (site 1)	EMCO	3850/2	1035	50 ohm / 50 uH	Oct. 27, 1997	Conduction
LISN (Support Unit) (site 1)	KYORITSU	KNW-407	8-693-10	50 ohm / 50 uH	Oct. 04, 1997	Conduction
EMI Filter (site 1)	CORCOM	MRI-2030	N/A	480 VAC / 30 A	N/A	Conduction
Amplifier (Site 1)	HP	8447D	2944A08291	0.1MHz -1.3GHz	Nov. 12, 1997	Radiation
Quasi-Peak Adapter (site 1)	HP	85650A	2811A01116	9KHz - 1000KHz	Jun 17, 1998	Radiation
Spectrum Analyzer (site 1)	HP	8568B	2732A04100	100Hz - 1500KHz	Jun 17, 1998	Radiation
Bilog Antenna (Site 1)	CHASE	CBL6111	1378	30MHz -1 GHz	Aug. 11, 1997	Radiation
Half-wave dipole antenna (site 1)	EMCO	3121C	9705-1285	28 M - 1GHz	May 19, 1998	Radiation
Turn Table (site 1)	EMCO	1060-1.211	9507-1805	0 ~ 360 degree	N/A	Radiation
Antenna Mast (site 1)	EMCO	1051-1.2	9502-1868	1 m - 4 m	N/A	Radiation

^{*} The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.

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