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CE TEST REPORT FOR

APPLICANT : Smart Home Engineering Corp.
ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
Receipt Date : 05/15/2012 Final Test Date: 05/31/2012
EUT : VGA Keyboard Mouse CAT5 Extender
MODEL NO. : VKMXXTX, VKMXXRX

MEASUREMENT PROCEDURE USED

EN55022 CLASS B / EN61000-3-2 / EN61000-3-3 / EN55024 GIVEN IN
EUROPEAN COUNCIL DIRECTIVE 2004/108/EC

This test result of this report applies to above tested sample only.

This test report shall not be reproducing in part without written approval of HomeTek Technology Inc.

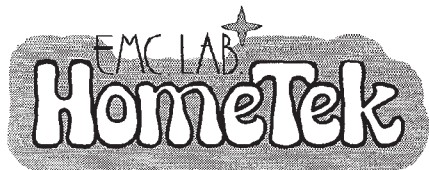
PREPARED BY :

HomeTek Technology Inc.

No. 67-9, Shir Men Road, Tu Cheng City,

Taipei Hsien. Taiwan

Report # : EBJÖİ Í G



HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien

PHONE : 886-2-22608375 FAX : 886-2-22748013

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CERTIFICATE OF COMPLIANCE

EUT : VGA Keyboard Mouse CAT5 Extender
MODEL NO. : VKMXXTX, VKMXXRX
Receipt Date : 05/15/2012 Final Test Date: 05/31/2012
REPORT # : EB9G752
APPLICANT : Smart Home Engineering Corp.
ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.

Measurement procedure used:

EMI: EN 55022 Class B : 2010

EN 61000-3-2 : 2006+A1:2009+A2:2009

EMS: EN 55024 :2010

IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-4:2004+A1:2010

IEC 61000-4-5:2005, IEC 61000-4-6:2008, IEC 61000-4-8:2009, ICE 61000-4-11:2004

We hereby show that:

The measurements shown in this test report were made in accordance with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 2004/108/EC**, and the energy emitted by the equipment was found to be within the limits applicable. This product, which has been issued the test report listed as above in HomeTek Technology Inc., is based on single evaluation of one sample and confirmed to comply with the requirements of the above-mentioned EMC standard.

This test report is a duplicate of original one (report No. EB9G089 issued on 2012.06.01),
applicant and model No. is modified.

APPROVED BY : 

ALAIN LIN / Assistant Manage

EB9G752

TEST REPORT CERTIFICATION

EMC of electrical appliances

Report reference No. : **EB9G752**
 Date of issue : **NOV., 23, 2013**
 Applicant : Smart Home Engineering Corp.
 Address : 10F., No. 493, Chung-Cheng Rd.,
 Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
 Manufacturer : Smart Home Engineering Corp.
 Type of test object : VGA Keyboard Mouse CAT5 Extender
 Model/type reference : VKMXXTX, VKMXXRX
 Rated Voltage : N/A
 EUT Voltage : N/A
 Test Result : Complied
 Testing laboratory : HomeTek Technology Inc.
 Address : No. 67-9, Shir Men Road, Tu Cheng City, Taipei Hsien,
 Taiwan, R. O. C.
 TEL / FAX : +886-2-22608375 / +886-2-22748013
 E-mail : hometek@ms15.hinet.net
 Standard : **EN55022 Class B: 2010**
EN61000-3-2: 2006+A1: 2009+A2: 2009
EN61000-3-3: 2008
EN55024: 2010
IEC 61000-4-2: 2008
IEC 61000-4-3: 2006+A1: 2007+A2: 2010
IEC 61000-4-4: 2004+A1: 2010
IEC 61000-4-5: 2005
IEC 61000-4-6: 2008
IEC 61000-4-8: 2009

Tested by (+ signature) :
 Jason Lin / Engineer Jason Lin

Approved by (+ signature) :
 Alain Lin / Assistant Manager Alain Lin



TEST REPORT CERTIFICATION..... 1

TABLE OF CONTENTS..... 2

GENERAL INFORMATION..... 4

MODIFICATION LIST..... 5

CONDUCTED POWER LINE TEST 6

1 TEST PROCEDURE..... 6

2 RESULT OF CONDUCTED EMISSION TEST..... 6

RADIATED EMISSION TEST..... 7

1 TEST INSTRUMENTS & FACILITIES..... 7

2 TEST PROCEDURE..... 8

3 TEST SETUP 8

4 CONFIGURATION OF THE EUT 10

5 EUT OPERATING CONDITION..... 18

6 LIMIT OF RADIATED EMISSION CLASS B 19

7 RESULT OF RADIATED EMISSION TEST..... 19

8 RADIATED EMISSION TEST DATA (PAGE 1)..... 20

9 RADIATED EMISSION TEST DATA (PAGE 2)..... 21

HARMONICS TEST..... 22

1 TEST PROCEDURE..... 22

2 RESULT OF HARMONICS TEST 22

VOLTAGE FLUCTUATIONS TEST 23

1 TEST PROCEDURE..... 23

2 RESULT OF VOLTAGE FLUCTUATIONS TEST 23

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD) 24

1 TEST INSTRUMENTS & FACILITIES..... 24

2 TEST PROCEDURE..... 24

3 TEST SETUP 24

4 CONFIGURATION OF THE EUT 25

5 EUT OPERATION CONDITION..... 25

6 TEST CONDITION 25

7 PERFORMANCE CRITERIA 25

8 TEST RESULT 26

RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RF)..... 27

1 TEST INSTRUMENTS & FACILITIES..... 27

2 TEST PROCEDURE..... 27

3 TEST SETUP 28

4 CONFIGURATION OF THE EUT 29

5 OPERATION CONDITION OF EUT..... 29



6 TEST CONDITION 29

7 PERFORMANCE CRITERIA 29

8 TEST RESULT 30

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)..... 31

1 TEST PROCEDURE..... 31

2 RESULT OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT) 31

SURGE IMMUNITY TEST 32

1 TEST PROCEDURE..... 32

2 RESULT OF SURGE IMMUNITY TEST 32

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE 33

1 TEST PROCEDURE..... 33

2 RESULT OF SURGE IMMUNITY TEST 33

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST 34

1 TEST INSTRUMENTS & FACILITIES..... 34

2 TEST STANDARD 34

3 TEST SETUP 34

4 TEST LEVELS..... 35

5 CONFIGURATION OF THE EUT 35

6 OPERATION CONDITION OF EUT 35

7 CONDITIONS DURING TESTING..... 35

8 PERFORMANCE CRITERIA 35

9 TEST RESULTS 36

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST..... 37

1 TEST PROCEDURE..... 37

2 RESULT OF VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST 37

APPENDIX A

PHOTOS OF TEST CONFIGURATION

APPENDIX B

PHOTOS OF EUT

GENERAL INFORMATION

- 1 APPLICANT : Smart Home Engineering Corp.
- 2 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
- 3 MANUFACTURER : Smart Home Engineering Corp.
- 4 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
- 5 DESCRIPTION OF EUT :
- EUT : VGA Keyboard Mouse CAT5 Extender
- Model : VKMXXTX, VKMXXRX
- Serial # : N/A

5.1 The difference between series of models VKMXXTX and VKMXXRX are as shown below:

Difference Mode No.	PSII	USB	Remark
VKMXXTX	Yes	No	(1) The first and second "X" represents different system input.
VKMXXRX	No	Yes	(2) The third "X" represent different accessory.

The PCB layout is similar. The worst case of EMC test data were shown in this test report.

6 FEATURES OF EUT :

Please refer to user manual or product specification.

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST PROCEDURE

According to **EN55022 Class B**.

2 RESULT OF CONDUCTED EMISSION TEST

N/A (Conducted Power Line Test is not applicable to this EUT (Model : VKMXXX).

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Date of Cal.
1	OPEN AREA TEST SITE	<input checked="" type="checkbox"/> OATS 3			JUL/2011
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	FEB/2012
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2011
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2614	JUN/2011
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	JUL/2011
6	Ferrite Clamp	30 ~ 1000MHz	ADT	FC18 910030	DEC/2011
7	Ferrite Clamp	30 ~ 1000MHz	HomeTek	HFC 001	DEC/2011
8	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2011
9	Cable	14m	BELDEN	9913 OS3-001	DEC/2011
10	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

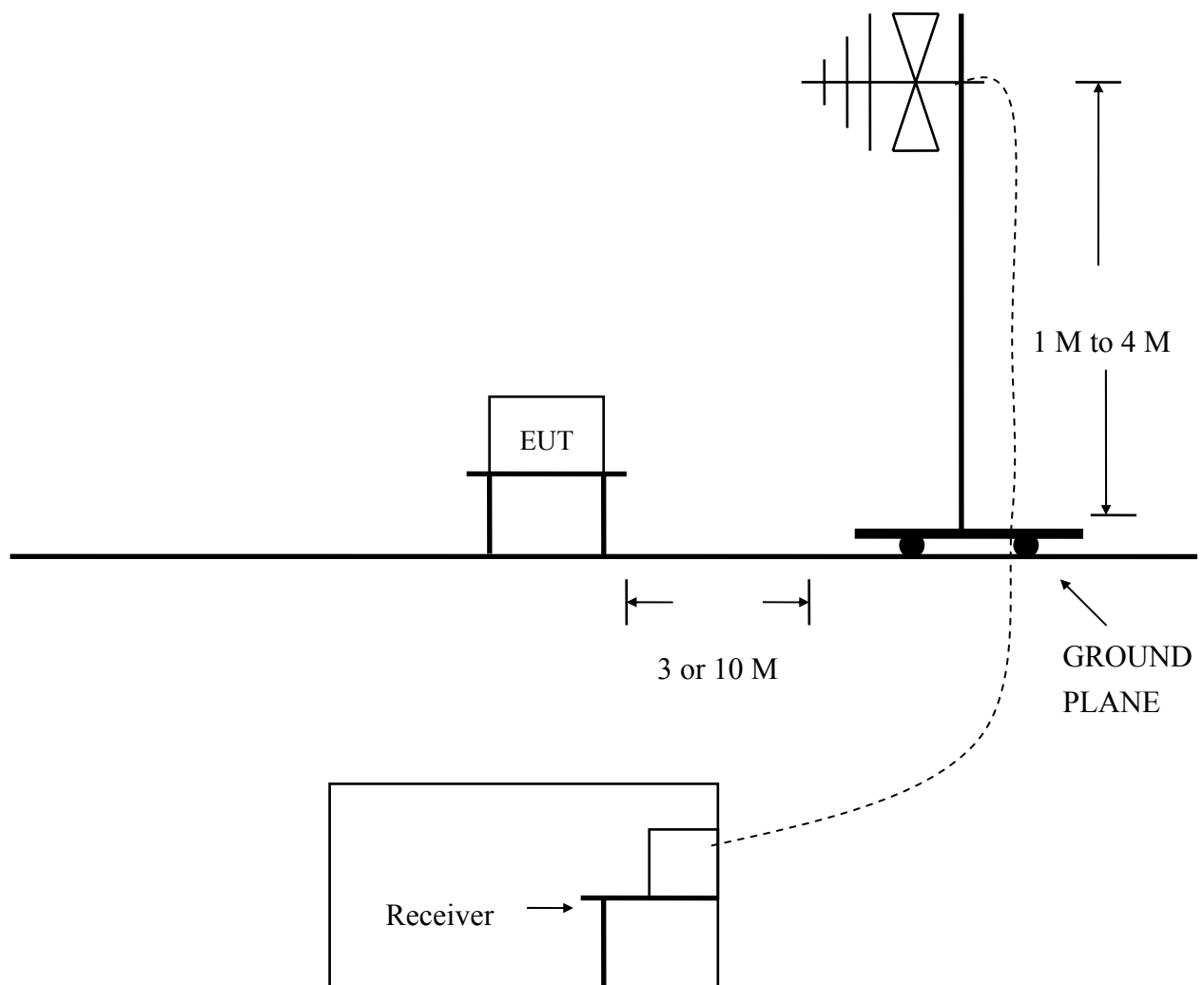
Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was test according to **EN55022**.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site 3.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP

3.1 TEST SETUP OF OPEN SITE.



(Details for setup configuration, please refer to appendix A.)

4 CONFIGURATION OF THE EUT

The EUT was configured according to **EN55022**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

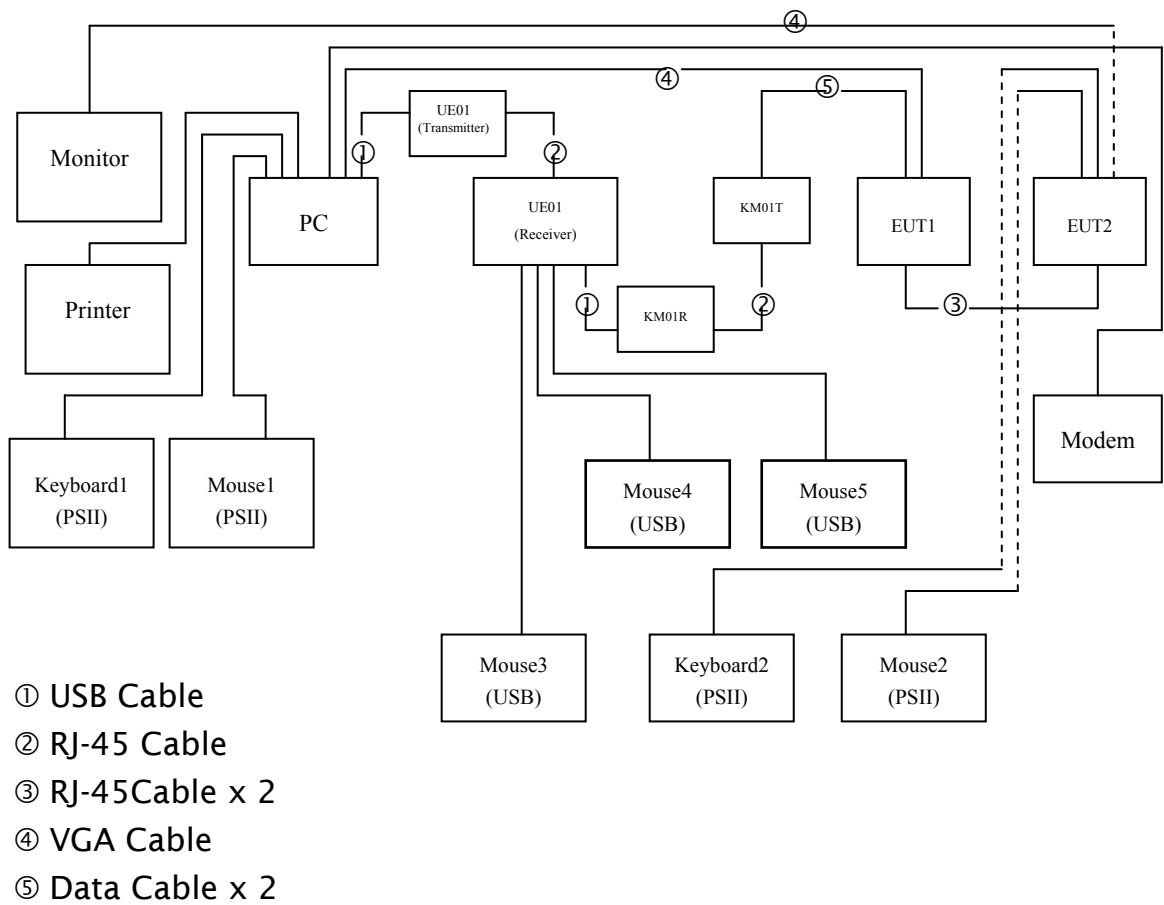


Figure 1

4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production

Condition when received : Good Damage : _____

Device : VGA Keyboard Mouse CAT5 Extender

Applicant : Smart Home Engineering Corp.

Manufacturer : Smart Home Engineering Corp.

Model Number : VKMXXTX, VKMXXRX

Serial Number : N/A

FCC ID : N/A

● VKMXXX (EUT1)

Keyboard Port : Metal Type Connector

Mouse Port : Metal Type Connector

VGA In Port : Metal Type Connector

RJ1 Port (Data Cable) : Un-Shielded, 0.18 m, Metal Type Connector

RJ2 Port (Data Cable) : Un-Shielded, 0.18 m, Metal Type Connector

● VKMXXX (EUT2)

Keyboard Port : Metal Type Connector

Mouse Port : Metal Type Connector

VGA Out Port : Metal Type Connector

RJ1 Port (Data Cable) : Un-Shielded, 0.18 m, Metal Type Connector

RJ2 Port (Data Cable) : Un-Shielded, 0.18 m, Metal Type Connector

Power Cord : N/A

Power Supply Type : N/A



4.2 PERIPHERALS

Host Personal Computer

Manufacturer : HP/COMPAQ
Model Number : D330UT
Serial Number : SGH40606Z1
FCC ID : FCC DoC
Data Cable 1 : Un-Shielded, 0.18 m, Connect to the USB Port
Data Cable 2 : Shielded, 1.8 m, Connect to the VGA In Port
Power Cord : Un-Shielded, 1.8 m

VGA Card

Manufacturer : ASUS
Model Number : V9999LE/TD/N/128M/A
Serial Number : 59CG018553
FCC ID : N/A
Data Cable : N/A
Power Cord : N/A

Monitor

Manufacturer : SAMSUNG
Model Number : GH19BS
Serial Number : GH19H4JW103538B
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the VGA Out port
Power Cord : Un-Shielded, 1.8 m



Printer

Manufacturer : HP
Model Number : DJ400
Serial Number : MY7781C1BB
FCC ID : B94C2642X
Data Cable : Shielded, 1.5 m, Connected to the Printer port
Power Cord & Adaptor : Un-Shielded, 1.8 m

Modem

Manufacturer : ACEEX
Model Number : 1414
Serial Number : 9013524
FCC ID : IFAXDM1414
Data Cable : Shielded, 1.5 m, Connected to the COM port
Power Cord & Adaptor : Un-Shielded, 1.8 m

Mouse1 (PSII)

Manufacturer : DELL
Model Number : IntelliMouse 1.3A PS/2 Compatible
Serial Number : 9028603-5
FCC ID : FCC DoC
Data Cable : Shielded, 1.8 m, Connected to the PSII port
Power Cord : N/A



Mouse2 (PSII)

Manufacturer : Microsoft
Model Number : KAZB1
Serial Number : 0720670
FCC ID : C3KAZB1
Data Cable : Shielded, 1.8 m, Connected to the PSII port
Power Cord : N/A

Mouse3 (USB)

Manufacturer : Genius
Model Number : NetScorII
Serial Number : N/A
FCC ID : N/A
Data Cable : Un-Shielded, 1.8 m, Connected to the USB port
Power Cord : N/A

Mouse4 (USB)

Manufacturer : Memorex
Model Number : MP23R-E
Serial Number : N/A
FCC ID : N/A
Data Cable : Un-Shielded, 1.8 m, Connected to the USB port
Power Cord : N/A



Mouse5 (USB)

Manufacturer : Memorex
Model Number : MP23R-E
Serial Number : N/A
FCC ID : N/A
Data Cable : Un-Shielded, 1.8 m, Connected to the USB port
Power Cord : N/A

KeyBoard1 (PSII)

Manufacturer : Monterey
Model Number : K371
Serial Number : H0007057608
FCC ID : FCC DoC
Data Cable : Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A

KeyBoard2 (PSII)

Manufacturer : ASUS
Model Number : KS-613P
Serial Number : N/A
FCC ID : N/A
Data Cable : Un-Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A



USB CAT5 extender with 4 port USB hub (Transmitter)

Manufacturer : Smart Home Engineering Corp.
Model Number : UE01
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.18 m, Connected to the USB port
Data Cable 2 : Un-Shielded, 0.07 m, Connected to the RJ-45 port
Power Cord : N/A

USB CAT5 extender with 4 port USB hub (Receiver)

Manufacturer : Smart Home Engineering Corp.
Model Number : UE01
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.07 m, Connected to the RJ-45 port
Data Cable 2 x 3 : Un-Shielded, 1.8 m, Connected to the USB port
Data Cable 3 : Un-Shielded, 0.18 m, Connected to the USB port
Power Cord : N/A

Keyboard Mouse CAT5 Extender

Manufacturer : Smart Home Engineering Corp.
Model Number : KM01T
Serial Number : N/A
FCC ID : N/A
Data Cable 1 : Un-Shielded, 0.07 m, Connected to the RJ-45 port
Data Cable 2 : Un-Shielded, 0.26 m, Connected to the Keyboard port
Data Cable 3 : Un-Shielded, 0.26 m, Connected to the Mouse port
Power Cord : N/A



Keyboard Mouse CAT5 Extender

Manufacturer : Smart Home Engineering Corp.

Model Number : KM01R

Serial Number : N/A

FCC ID : N/A

Data Cable 1 : Un-Shielded, 0.18 m, Connected to the USB port

Data Cable 2 : Un-Shielded, 0.07 m, Connected to the RJ-45 In port

Power Cord : N/A

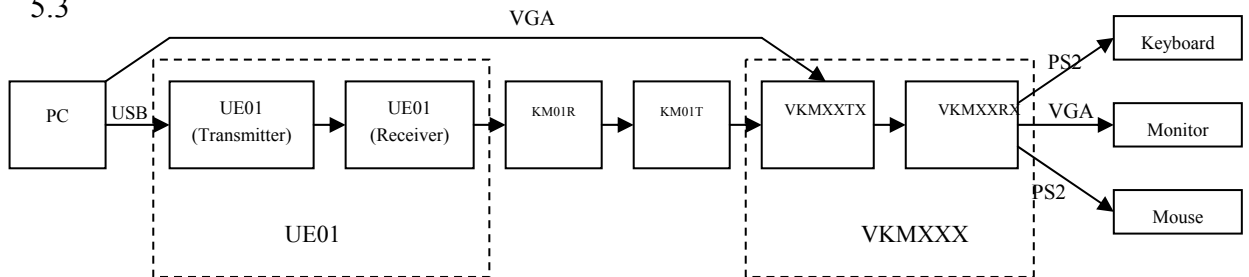
4.3 REMARK : N/A

5 EUT OPERATING CONDITION

5.1 The frequency of the EUT is none.

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site 3.

5.3



5.4 PC sends VGA signal to VKMXXTX and VKMXXRX change VGA signal.

5.5 During the test, the PC sends "H" patterns to each I/O port individually. (For 1280 x 1024)

5.6 Then has changed VGA signal send to monitor display.

5.7 The photos of radiated test configuration, please refer to appendix A.

6 LIMIT OF RADIATED EMISSION CLASS B

Frequency (MHz)	Measurement Distance	Limit (dBuV/m)
30 - 230	10 (M)	30
230 - 1000	10 (M)	37

7 RESULT OF RADIATED EMISSION TEST

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated.
- 7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.
- 7.3 The measurements were made at 10 meters of HomeTek Lab's open site 3.
- 7.4 Temperature : 25 °C, Humidity : 49 % RH.
- 7.5 Deviation form the test standards and rules : None.
- 7.6 The radiated emission result were gained by the following method :
 Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor
 Over Limit = Level – Limit Line
- 7.7 Result : **PASSED**



8 RADIATED EMISSION TEST DATA (PAGE 1)

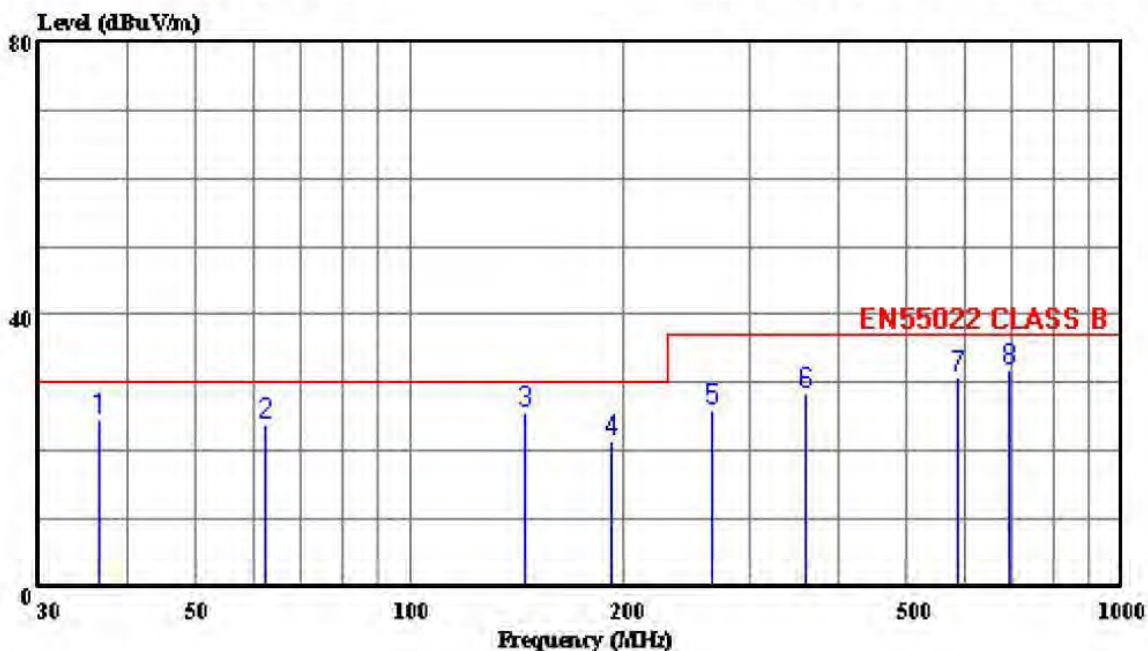


HomeTek Technology Inc.

No 67-9, Shi-Men Rd., Tu-Chen City,
Taipei County, Taiwan R.O.C.
Tel: 02-22608375
Fax: 02-22748013

Data#: 6 File#: 6e023.emi

Date: 2012-09-27 Time: 13:28:48



Trace:

Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 HORIZONTAL
cut : VGA Keyboard Mouse CAT5 Extender
power: N/A
memo : VKM01

Page: 1

	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Remark
	MHz	dBuV/m	Line	Limit	Level	Factor	Loss	
			dBuV/m	dB	dBuV	dB/m	dB	dB
1	36.540	24.62	30.00	-5.38	34.00	15.94	0.68	26.00 Peak
2	62.540	23.79	30.00	-6.21	42.00	6.76	0.98	25.95 Peak
3	145.230	25.68	30.00	-4.32	39.00	10.68	1.81	25.81 Peak
4	192.500	21.32	30.00	-8.68	36.00	8.97	2.07	25.72 Peak
5	265.300	26.12	37.00	-10.88	36.00	13.12	2.57	25.57 Peak
6	360.490	28.49	37.00	-8.51	36.00	14.68	3.14	25.33 Peak
7	589.120	30.74	37.00	-6.26	31.00	18.54	5.71	24.51 Peak
8	697.530	31.91	37.00	-5.09	32.00	18.82	5.15	24.05 Peak

9 RADIATED EMISSION TEST DATA (PAGE 2)

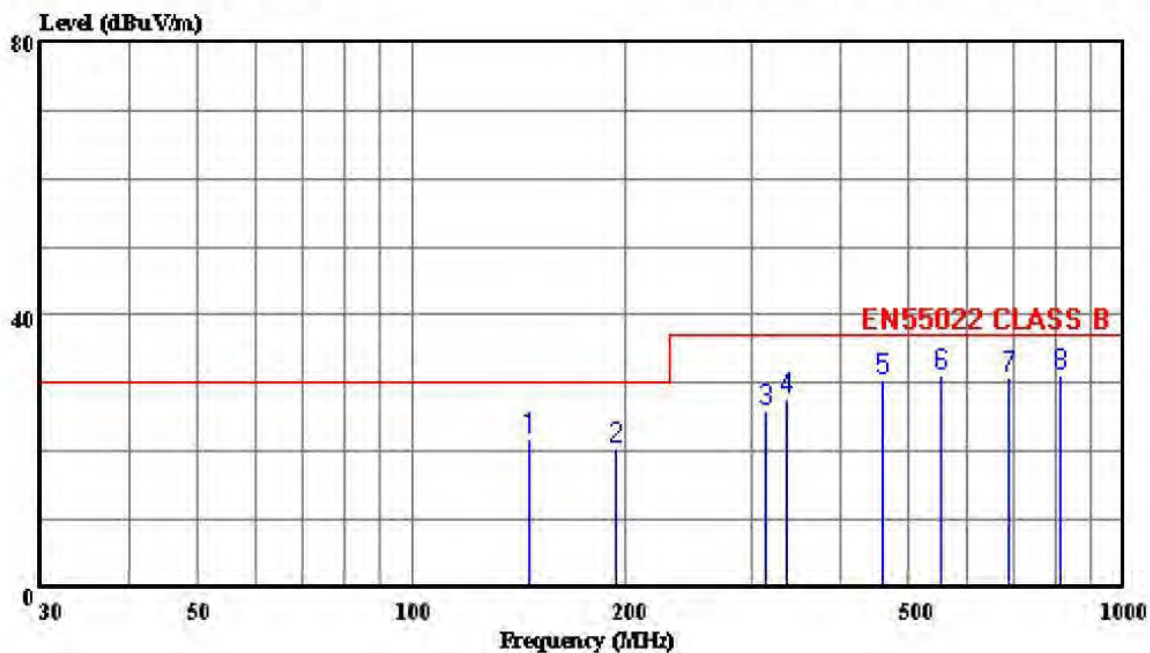


HomeTek Technology Inc.

No 67-9, Shi-Men Rd., Tu-Chen City,
 Taipei County, Taiwan R.O.C.
 Tel: 02-22608375
 Fax: 02-22748013

Data#: 5 File#: 6e023.emi

Date: 2012-09-27 Time: 13:22:18



Trace:

Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 VERTICAL
 eut : VGA Keyboard Mouse CAT5 Extender
 power: N/A
 memo : VKM01

Page: 1

	Limit	Over	ReadAntenna	Cable	Preamp			
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	
1	145.600	21.68	30.00	-8.32	35.00	10.68	1.81	25.81 Peak
2	193.800	20.35	30.00	-9.65	35.00	8.99	2.08	25.72 Peak
3	314.500	25.89	37.00	-11.11	35.00	13.49	2.86	25.46 Peak
4	337.200	27.69	37.00	-9.31	36.00	14.09	3.00	25.39 Peak
5	458.120	30.42	37.00	-6.58	35.00	16.72	3.69	24.99 Peak
6	552.120	31.05	37.00	-5.95	32.00	18.69	4.99	24.63 Peak
7	690.100	30.95	37.00	-6.05	31.00	18.84	5.19	24.08 Peak
8	816.500	31.28	37.00	-5.72	30.00	19.89	5.11	23.72 Peak

HARMONICS TEST

1 TEST PROCEDURE

According to **EN 61000-3-2 4228- C3422; - C4422**;

2 RESULT OF HARMONICS TEST

N/A (This standard is not applicable to this EUT (Model : VKMXXX)).

VOLTAGE FLUCTUATIONS TEST

1 TEST PROCEDURE

According to **EN 61000-3-3** & **422**:

2 RESULT OF VOLTAGE FLUCTUATIONS TEST

N/A (This standard is not applicable to this EUT (Model : VKMXXX).

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	HAEFELY	PESD 1610	NOV/2011
VCP	HOMETEK	--	--

2 TEST PROCEDURE

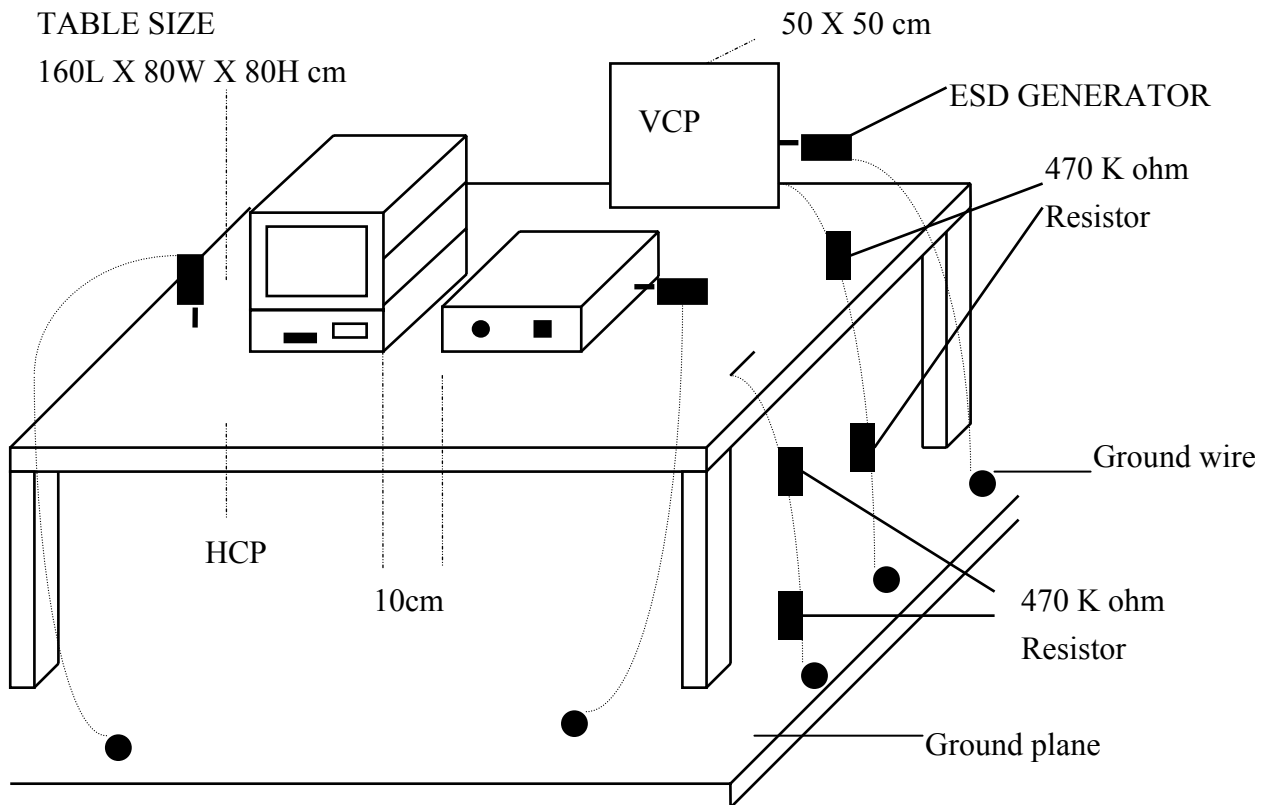
According to **IEC 61000-4-2 <422>**:

According to **EN 55024 <4232>**

3 TEST SETUP

TABLE SIZE

160L X 80W X 80H cm



(Details for setup configuration, please refer to appendix A.)

4 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

5 EUT OPERATION CONDITION

Same as “Radiated Emission test”, section 5

6 TEST CONDITION

6.1 Test Level :

(A) ± 2 , ± 4 , ± 8 KV for air discharge.

(B) ± 2 , ± 4 KV for contact discharge.

6.2 Number of test : 10 Discharges / Test point / Polarity / Level

Particular requirements : at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points.

6.3 Time between test : 1 sec.

6.4 Temperature : 21 °C

6.5 Humidity : 45 % RH.

7 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

Test Point	Air Discharge	Contact Discharge	Performance Criteria	Result
HCP	---	$\pm 2, \pm 4\text{KV}$	B	PASSED
VCP	---	$\pm 2, \pm 4\text{KV}$	B	PASSED
CASE	$\pm 2, \pm 4, \pm 8\text{KV}$	$\pm 2, \pm 4\text{KV}$	B	PASSED
I/O PORTS	$\pm 2, \pm 4, \pm 8\text{KV}$	$\pm 2, \pm 4\text{KV}$	B	PASSED
SCREWS	$\pm 2, \pm 4, \pm 8\text{KV}$	$\pm 2, \pm 4\text{KV}$	B	PASSED

✘ The screen was flash during the test. After the test, EUT resume automatically.

9 Photos of test configuration please refer to appendix A.

RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

1 TEST INSTRUMENTS & FACILITIES

Item	Instruments Facilities	Manufacturer	Model # Serial #	Data Of Cal.
1	SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02 845181/025	MAR/2012
2	AMPLIFIER	AMPLIFIER RESEARCH	100W1000M1A	N/A
3	FIELD SENSOR	AMPLIFIER RESEARCH	FP2000	AUG/2011
4	FIELD MONITOR	AMPLIFIER RESEARCH	FM2000	AUG/2011
5	RF VOLTMETER	BOONTON	9200C 361701AA	MAR/2012
6	RF PROBE	BOONTON	952001B 37082	MAR/2012
7	DIRECTION COUPLER	AMPLIFIER RESEARCH	DC6180 20521	N/A
8	ANTENNA	EMCO	3142B S/N: 1789	N/A
9	CONTROL PC	KB TECH	KB P586/133	--

Note : Items 3 ~ 4 were calibrated with two years and verified before testing.

2 TEST PROCEDURE

According to **IEC 61000-4-3 4228- C34229- C44232**

According to **EN 55024 4232**

4 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Radiated Emission test”, section 5

6 TEST CONDITION

6.1 Frequency Range : 80 MHz ~ 1000 MHz

(Frequency Range : 1.4 GHz ~ 2.0 GHz is not applicable for EN55024:1998+A1:2001+A2:2003)

6.2 Field Strength : 3 V / M (1KHz 80% Modulation)

6.3 Frequency Step : 1 %, 3 sec. / each step size

6.4 Antenna Polarity : HORIZONTAL & VERTICAL

6.5 The four sides of EUT are tested
(FRONT, REAR, RIGHT, LEFT)

6.6 Temperature : 23 °C

6.7 Humidity : 50 % RH

7 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

ANT SIDE	HORIZONTAL	VERTICAL	RESULT
FRONT	A	A	PASSED
REAR	A	A	PASSED
RIGHT	A	A	PASSED
LEFT	A	A	PASSED

9 Photos of test configuration please refer to appendix A.

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

1 TEST PROCEDURE

According to **IEC 61000-4-4 4226- C3-4232**

According To **EN 55024 4232**

2 RESULT OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

N/A (This standard is not applicable to this EUT (Model : VKMXXX).

SURGE IMMUNITY TEST

1 TEST PROCEDURE

According To **IEC 61000-4-5 <4227**

According To **EN 55024 <4232**

2 RESULT OF SURGE IMMUNITY TEST

N/A (This standard is not applicable to this EUT (Model : VKMXXX).

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

1 TEST PROCEDURE

According To **IEC 61000-4-6 <422:**

According To **EN 55024 <4232**

2 RESULT OF SURGE IMMUNITY TEST

N/A (This standard is not applicable to this EUT (Model : VKMXXX).

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

1 TEST INSTRUMENTS & FACILITIES

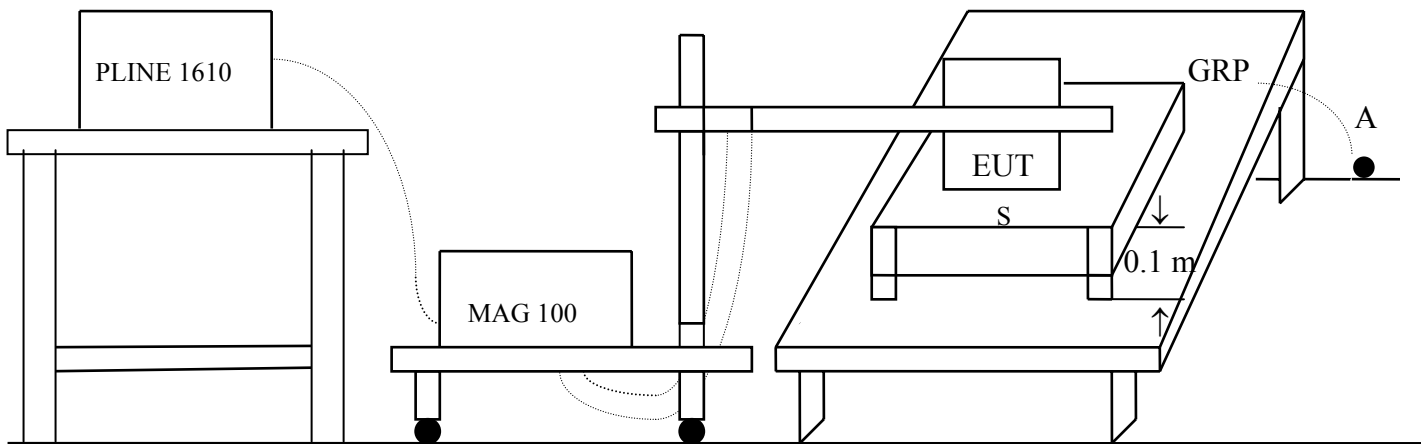
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
LINE INTERFERENCE TESTER	HAEFELY	PLINE 1610 080166-10	FEB/2012
MAGNETIC FIELD TESTER	HAEFELY	MAG 100.1 080206-01	N/A
TRIAXIAL ELF MAGNETIC FIELD METER	F.W.BELL	4080 9645	AUG/2011
CONTROL PC	KB TECH	KB P586/133	--

2 TEST STANDARD

According To **IEC 61000-4-8 <422>**;

According To **EN 55024 <4232>**

3 TEST SETUP



S: Insulating support

A: Safety earth

GRP: Ground plane

(Details for setup configuration, please refer to appendix A.)

4 TEST LEVELS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Power Frequency	50	HZ	
Magnetic Field	1	A/m	B

5 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

6 OPERATION CONDITION OF EUT

Same as “Radiated Emission test”, section 5

7 CONDITIONS DURING TESTING

7.1 Temperature : 24 °C (15°C ~ 35°C)
 Humidity : 54 % RH.(25 % ~ 75%)

7.2 The induction coil shall be rotated by 90°

8 PERFORMANCE CRITERIA

- A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULTS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Magnetic Field	1	A/m	A

9.1 Model : VKMXXX

9.2 Final Result : PASSED

9.3 Remark :

10 Photos of test configuration please refer to appendix A.

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST

1 TEST PROCEDURE

According To **IEC 61000-4-11 <2004**

According To **EN 55024 <4232**

2 RESULT OF VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST

N/A (This standard is not applicable to this EUT (Model : VKMXXX).



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Appendix A

PHOTOS OF TEST CONFIGURATION

PHOTO OF RADIATED EMISSION TEST

Model : VKMXXX



Front View



Rear View

PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RF)

Model : VKMXXX



PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)





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PHOTO OF POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

Model : VKMXXX





HomeTek Technology Inc.

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

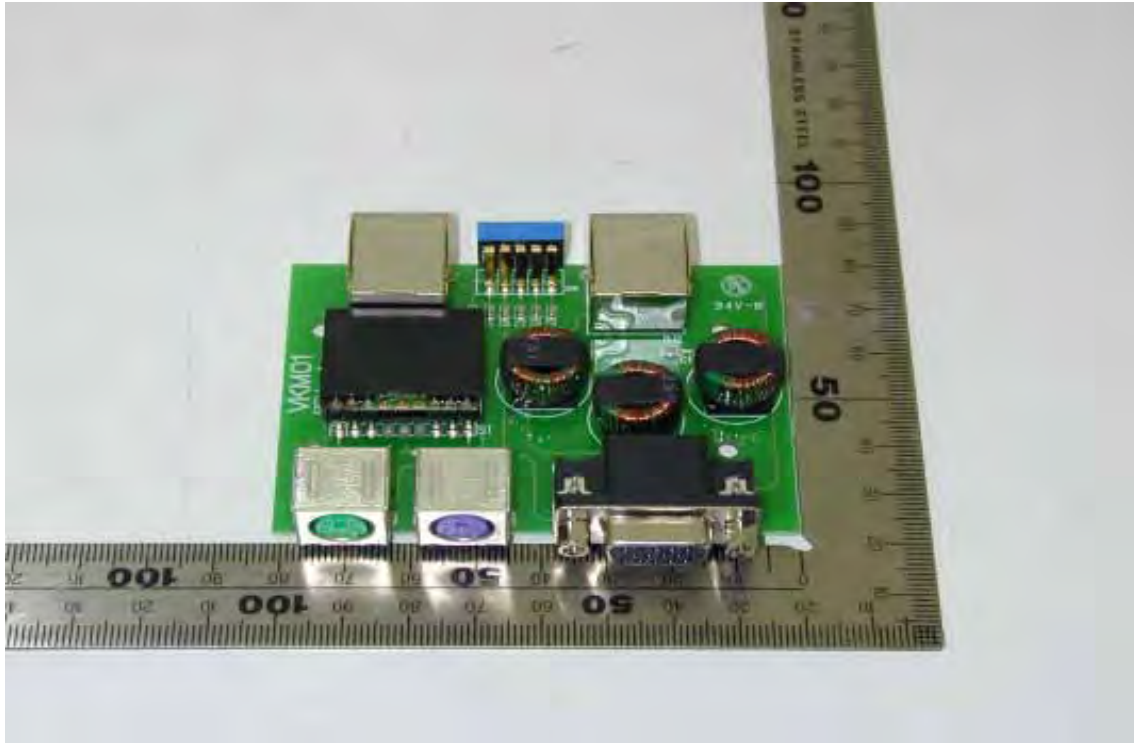
Model : VKMXXX



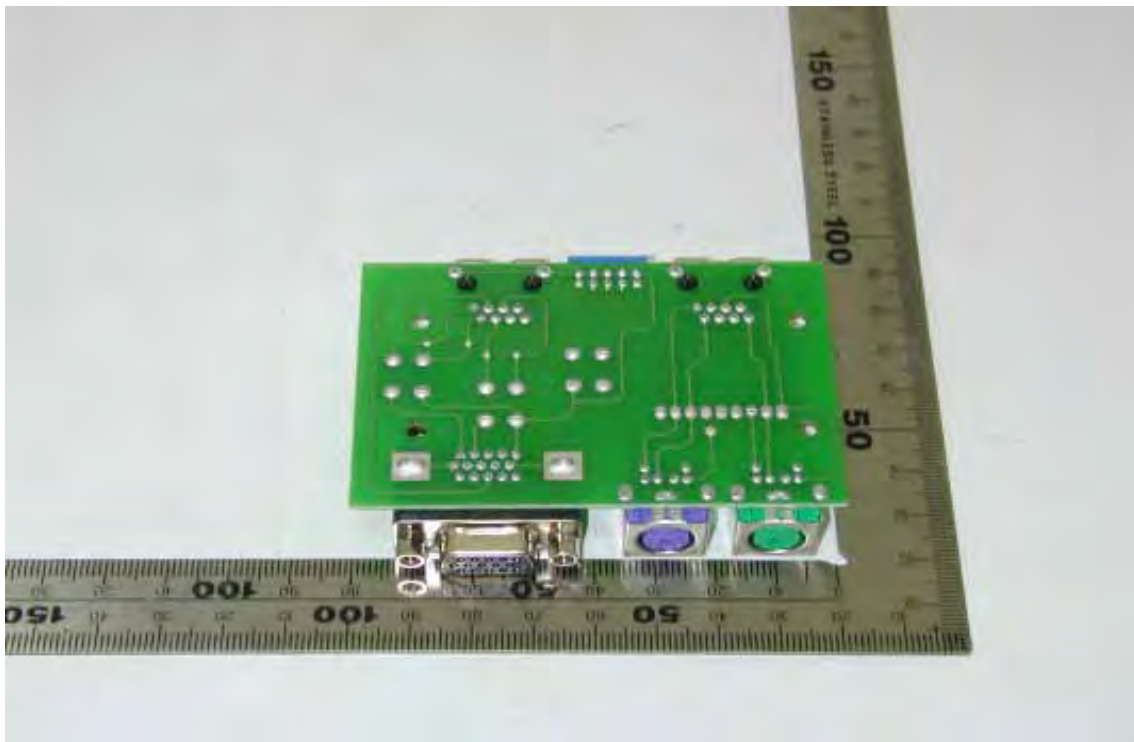
Full View of EUT

PHOTO OF EUT

Model : VKMXXTX



Component Side of Main Board



Solder Side of Main Board

Declaration of Conformity

We(Manufacturer/Importer)

(company name)

(address)

declares under our sole responsibility that the product

Product name : VGA Keyboard Mouse CAT5 Extender

Model No. : VKMXXTX, VKMXXRX

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

EN 55022 Class B:2010

EN 61000-3-2:2006

+A1:2009

+A2:2009

EN 61000-3-3:2008

EN 55024:2010

IEC 61000-4-2:2008

IEC 61000-4-3:2006

+A1:2007

+A2:2010

IEC 61000-4-4:2004

+A1:2005

IEC 61000-4-5:2005

IEC 61000-4-6:2008

IEC 61000-4-8:2009

IEC 61000-4-11:2004

following the provisions of 2004/108/EC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____



Title: _____