

ETSI EN 300 440 RADIO TEST REPORT

for

Acrox Technologies Co.,Ltd

2.4G Optical Mouse

Model Number: G3O

Prepared for : Aprox Technologies Co.,Ltd
4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.

Prepared By : EST Technology Co., Ltd.
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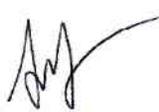
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Report Number : ESTE-R1206004
Date of Test : May.25-June.11, 2012
Date of Report : June.11, 2012

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Test Report Verification

Applicant:	Acrox Technologies Co., Ltd.		
Address:	4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.		
Manufacturer:	Acrox Technologies Co., Ltd.		
Address:	4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.		
Factory:	Acrox Technologies Co., Ltd.		
Address:	Hsinmin Industria, Changan Town, Dongguan City, Guangdong, China		
E.U.T:	2.4G Optical Mouse		
Model Number:	G30		
Power Supply:	DC 3V		
Test Voltage:	DC 3V		
Trade Name:	ASBIS / ACROX	Serial No.:	-----
Date of Receipt:	May.22.2012	Date of Test:	May.22.2012~June.11.2012
Test Specification:	ETSI EN 300 440-1 V1.6.1:2010-08 ETSI EN 300 440-2 V1.4.1:2010-08		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the ETSI EN 300 440 requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> <p style="text-align: right;">Date: June.11,12</p>		
Prepared by:	Tested by:	Approved by:	
			
Amy / Assistant	Tony Tang / Engineer	IcemanHu / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

1. SUMMARY OF MEASUREMENTS AND RESULTS

COMPLIANCE WITH ETSI EN 300 440-1 V1.6.1 (2010-08)/ ETSI EN 300 440-2 V1.4.1 (2010-08)

CLAUSE (ETSI EN300 440-1)	TEST PARAMETER	RESULTS
Transmitter Parameters		
7.1	Effective isotropic radiated power (eirp)	PASS
7.2	Permitted range of operating frequencies	PASS
7.3	Spurious emissions	PASS
7.4	Duty cycle	PASS
Receiver Parameters		
8.1	Adjacent channel selectivity-in band	N/A
8.2	Adjacent band selectivity	N/A
8.3	Blocking or desensitization	N/A
8.4	Spurious emissions	PASS
Note: N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	2.4G Optical Mouse
Model Number	:	G30
Operation frequency	:	2403~2480MHz
Receiver class	:	Class 3 (See note)
Power class	:	8
Modulation	:	GFSK
Antenna	:	Integrated PCB antenna, -5.83dBi gain
Applicant	:	Acrox Technologies Co., Ltd. 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.
Manufacturer	:	Acrox Technologies Co., Ltd. 4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.
Factory	:	Acrox Technologies Co., Ltd. Hsinmin Industria, Changan Town, Dongguan City, Guangdong, China
Sample Type	:	Prototype production

NOTE: This classification is based upon the impact on persons in case the equipment dose not operate above the specified minimum performance level and classified in accordance with EN 300 440-1(2010-08) clause 4.1 table 2.

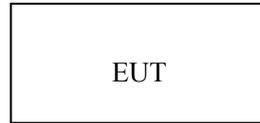
2.2. Test Facilities

EMC Lab	:	Certificated by CNAL, CHINA Registration No.: L5288 Date of registration: October 28, 2011
		Certificated by FCC, USA Registration No.: 989591 Date of registration: December 07, 2010
		Certificated by Industry Canada Registration No.: 144350 Date of registration: December 16, 2010
		Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011
		Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011
		Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011
		Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011
		Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie District, Dongguan, Guangdong, China

2.3. Tested Supporting System Details

N/A

2.4. Block Diagram of Test Setup



(EUT: 2.4G Optical Mouse)

3. MEASUREMENTS OF TRANSMITTER PARAMETERS (ETSI EN 300 440-1 V1.6.1)

3.1. Effective Isotropic Radiated Power (radiated)

3.1.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY42000131	May.15, 12	1 Year
2.	Test antenna	Schaffner	CBL6111C	2768	Apr.18, 12	1 Year
3.	Signal Generator	HP	83732B	6K00003262	May.15, 12	1 Year
4	Substitution antenna	Schaffner	CBL6111C	2768	Apr.18, 12	1 Year
5	Amplifier	Agilent	8447D	2944A10684	June. 18, 11	1 Year
6	HF Cable	Hubersuhne	Sucoflex104	-	May.15, 12	1 Year

3.1.2 Limit (ETSI EN 300 440-1, V1.6.1/2010-08 Clause 7.1.3)

Maximum radiated peak power (eirp)

Power class (note 1)	Power level (conducted or radiated)
8	10mW
9	25mW
11	100mW
12	500mW (see note 2)
13	1W
14	2W
14a	4W (see note 2)

NOTE 1:Class designation is based on CEPT/ERC

Recommendation 70-03 .

NOTE 2:For RFID applications, see annex C of ETSI EN 300 440-1 v1.6.1

3.1.3 Test Information

EUT:	2.4G Optical Mouse
M/N:	G3O
Test Date:	2012/06/03
Ambient Temperature:	25°C
Relative Humidity:	56%
Test standard	ETSI EN 300 440-1 V1.6.1/2010-08
Test mode	Transmitting mode
Power Supply	DC 3 V
Test frequency	CH Low: 2403MHz CH Mid: 2440MHz CH High: 2480MHz
Tested by	Tony

3.1.4 Test Method

This measurement was performed in anechoic chamber

- (1) Placed the EUT on the support in its standard position with associated equipment and switched on.
- (2) Use the measurement procedure as described in ETSI EN 300 440-1 V1.6.1 annex B (c) to (f) to obtain the maximum signal level, recorded this level.
- (3) Use substitution method to verify the output level of the EUT as described in ETSI EN 300 440-1 V1.6.1 annex B (g) to (k).
- (4) Repeated the test in all test frequency.

3.1.5 Test Results

Result For Normal Condition:

CH	Freq	EIRP Level (dBm)	Limit (dBm)	Over Limit (dB)
	(MHz)			
Low	2402	1.3	10	-8.7
Mid	2442	1.2	10	-8.8
High	2478	0.8	10	-9.2

Result For Extreme Condition:

CH	Freq	Conditions	EIRP Level (dBm)	Limit (dBm)	Over Limit (dB)
	(MHz)				
Low	2402	0°C; 3.6V	0.7	10	-9.3
		0°C; 2.0V	1.1	10	-8.9
		40°C; 3.6V	1.2	10	-8.8
		40°C; 2.0V	1.1	10	-8.9
Mid	2442	0°C; 3.6V	1.5	10	-8.5
		0°C; 2.0V	1.4	10	-8.6
		40°C; 3.6V	1.4	10	-8.6
		40°C; 2.0V	1.3	10	-8.7
High	2478	0°C; 3.6V	1.4	10	-8.6
		0°C; 2.0V	1.3	10	-8.7
		40°C; 3.6V	1.2	10	-8.8
		40°C; 2.0V	1.3	10	-8.7

3.2. Permitted range of operating frequencies (ETSI EN 300 440-1,
V1.6.1/2010-08 Clause 7.2)

3.2.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY42000131	May.15, 12	1 Year
2.	Test antenna	Schaffner	CBL6111C	2768	Apr.18, 12	1 Year
3.	Signal Generator	HP	83732B	6K00003262	May.15, 12	1 Year
4	Substitution antenna	Schaffner	CBL6111C	2768	Apr.18, 12	1 Year
5	Amplifier	Agilent	8447D	2944A10684	June.18, 11	1 Year
6	HF Cable	Hubersuhne	Sucoflex104	-	May.15, 12	1 Year

3.2.2 Limit

Limit
2.4GHz to 2.4835GHz (See note)

NOTE: For all equipment the frequency range shall lie within the frequency band allocated for use as recommended in CEPT/ERC Recommendation 70-03 [1] and ERC Decisions.

3.2.3 Test Information

EUT:	2.4G Optical Mouse
M/N:	G3O
Test Date:	2012/06/03
Ambient Temperature:	25°C
Relative Humidity:	56%
Test standard	ETSI EN 300 440-1 V1.6.1/2010-08
Test mode	Transmitting mode
Power Supply	DC 3 V
Test frequency	CH Low: 2403MHz CH High: 2480MHz
Tested by	Tony

3.2.4 Test Method

This measurement was performed in anechoic chamber

- (1) Put the EUT on the support in its standard position with associated equipment and switched on.
- (2) Adjusted the antenna height, polarization and turntable azimuth until the maximum emitted power level was obtained.
- (3) Use substitution method to verify the loss between the EUT and the test receiver
- (4) Put the loss get in step (3) in Spectrum Analyzer as an offset loss
- (5) Measured the frequency range as specified in ETSI EN 300 440-1 V1.6.1 clause 7.2

3.2.5 Test result

Test mode: Tx Mode			
Test Condition		Frequency (MHz)	
Temperature (*C)	Voltage (V)H,L	Lowest 2403MHz	Highest 2480MHz
0	3.6V	2402.9167	2480.0817
0	2.0V	2402.9153	2480.0816
25	3.0V	2402.9180	2480.0801
40	3.6V	2402.9123	2480.0929
40	2.0V	2402.9152	2480.0977
Measured Frequency		F_L=2402.9123	F_H=2480.0977

3.3. Spurious emissions (ETSI EN 300 440-1, V1.6.1/2010-08 Clause 7.3)

3.3.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	R&S	FSU	1166.1660.26	Nov.29,11	1 Year
2.	Vector Signal Generator	R&S	SMBV100A	1407.6004K02	Nov.29,11	1 Year
3.	Double Ridged Horn Antenna	R&S	HF907	100276	Jan.16,11	2 Year
4	Double Ridged Horn Antenna	R&S	HF907	100268	Jan.16,11	2 Year
5	Log-periodic Dipole Antenna	R&S	HL223	100435	Jan.26,11	2 Year
6	Biconical Antenna	R&S	HK116	100431	Nov.09,10	2 Year
7	Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-462	Nov.08,10	2 Year
8	Pre-amplifer	AH	PAM-0118	10008	Jan.02,12	1 Year
9	Pre-amplifer	R&S	SCU-01	10049	Oct.25,11	1 Year
10	High Pass filter	Micro	HPM50111	324455	Jan.02,12	1 Year
11	RF Cable	Hubersuhner	W10.02	534096	Jan.02,12	1 Year
12	RF Cable	Hubersuhner	W10.02	534123	Jan.02,12	1 Year
13	RF Cable	Hubersuhner	RG 214/U	513423	Jan.02,12	1 Year
14	RF Cable	Hubersuhner	RG 214/U	523455	Jan.02,12	1 Year

3.3.2 limit

State	47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies $\leq 1\ 000$ MHz	Frequencies > 1 000 MHz
Operating	4 nW /-54dBm	250 nW/-36dBm	1 W /-30dBm
Standby	2 nW /-57dBm	2 nW /-57dBm	20 nW /-47dBm

3.3.3 Test Information

EUT:	2.4G Optical Mouse
M/N:	G30
Test Date:	2012/06/05
Ambient Temperature:	25°C
Relative Humidity:	56%
Test standard	ETSI EN 300 440-1 V1.6.1/2010-08
Test mode	Transmitting mode
Power Supply	DC 3 V
Test frequency	CH Low: 2403MHz CH Mid: 2440MHz CH High: 2480MHz
Measuring receiver bandwidth	120kHz for frequency below 1000MHz and 1MHz for frequency above 1000MHz.
Tested by	Tony

3.3.4 Test method

This measurement was performed in anechoic chamber

- (1) Put the EUT on the support in its standard position with associated equipment and switched on.
- (2) Use the measurement procedure as described in ETSI EN 300 440-1 V1.3.1 clause 7.3.5 (a) and clause 7.3.4 (b) to (i) to measure each spurious emissions.

3.3.5 Test result

Result For TX CH Low 2403 MHz :

Item (Mark)	Freq (MHz)	Signal Source (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1	594.40	-86.1	7.3	2.6	-81.4	-54	-27.4	VERTICAL
2	903.48	-80.9	7.2	3.8	-77.5	-36	-41.5	VERTICAL
3	4806	-55.4	9.5	8.5	-54.4	-30	-24.4	VERTICAL
4	383.80	-83.1	7.1	2.3	-78.3	-36	-42.3	HORIZONTAL
5	901.53	-79.6	7.2	3.8	-76.2	-36	-40.2	HORIZONTAL
6	4806	-74.3	9.5	8.5	-73.3	-30	-43.3	HORIZONTAL

Result For TX CH Mid 2440 MHz :

Item (Mark)	Freq (MHz)	Signal Source (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1	26.95	-63.3	-15.5	0.5	-79.3	-36	-43.3	VERTICAL
2	792.33	-84.1	7.3	3.3	-80.1	-54	-26.1	VERTICAL
3	4880	-66.4	9.9	8.7	-65.2	-30	-35.2	VERTICAL
4	383.80	-83.1	7.1	2.3	-78.3	-36	-42.3	HORIZONTAL
5	916.15	-79.5	7.2	3.9	-76.2	-36	-40.2	HORIZONTAL
6	4880	-65.5	9.9	8.7	-64.3	-30	-34.3	HORIZONTAL

Result For TX CH High 2480 MHz :

Item (Mark)	Freq (MHz)	Signal Source (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1	25.98	-65.6	-15.8	0.5	-81.9	-36	-45.9	VERTICAL
2	945.40	-79	7.3	3.7	-75.4	-36	-39.4	VERTICAL
3	4960	-62.3	9.9	8.9	-61.3	-30	-31.3	VERTICAL
4	383.80	-84	7.1	2.3	-79.2	-36	-43.2	HORIZONTAL
5	878.13	-78	7.3	3.8	-74.5	-36	-38.5	HORIZONTAL
6	4960	-61.3	9.9	8.9	-60.3	-30	-30.3	HORIZONTAL

Result For Standby :

Item (Mark)	Freq (MHz)	Signal Source (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1	30.21	-63.4	-15.4	0.5	-79.3	-57	-22.3	VERTICAL
2	793.21	-84.2	7.4	3.3	-80.1	-57	-23.1	VERTICAL
3	4890	-71.3	9.9	8.7	-70.1	-47	-23.1	VERTICAL
4	384.2	-82.1	7.1	2.3	-77.3	-57	-20.3	HORIZONTAL
5	916.15	-77.6	7.2	3.9	-74.3	-57	-17.3	HORIZONTAL
6	4890	-74.1	9.9	8.7	-72.9	-47	-25.9	HORIZONTAL

Note: Result = Signal Source + Antenna Gain – Cable loss

3.4. Duty cycle (ETSI EN 300 440-1, V1.6.1/2010-08 Clause 7.4)

3.4.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY42000131	May 15, 12	1 Year
2.	Test antenna	Schaffner	CBL6111C	2768	Apr.18, 12	1 Year
3	Amplifier	Agilent	8447D	2944A10684	June. 18, 11	1 Year
4	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 12	1 Year

3.4.2 limit

Duty cycle class	Duty cycle ratio
1	$\leq 0.1\%$
2	$\leq 1.0\%$
3	$\leq 10\%$
4	Up to 100%

3.4.2 Test Information

EUT:	2.4G Wireless Keyboard
M/N:	DOK-K5302W
Test Date:	2011/12/15
Ambient Temperature:	25°C
Relative Humidity:	56%
Test standard	ETSI EN 300 440-1 V1.6.1/2010-08
Test mode	Transmitting mode
Power Supply	DC 1.5 V
Test frequency	CH Mid: 2442MHz
Measuring receiver bandwidth	120kHz for frequency below 1000MHz and 1MHz for frequency above 1000MHz.
Tested by	Tony

3.4.3 Test method

Use the method as frequency range test, and then use the zero span of Spectrum Analyzer to read out the “message” on time in any one period.

3.4.5 Test result

Test Mode	Duty cycle
TX CH Mid: 2440MHz	0.105

4. MEASUREMENTS OF RECEIVER PARAMETERS (ETSI EN 300 440-1 V1.6.1)

4.1 Adjacent channel selectivity-in band

Only for Equipment Class 1 receivers.(See ETSI EN 300 440-2 V1.4.1 clause 4.2.1)

4.2 Adjacent band selectivity

Only for Equipment Class 1 receivers. (See ETSI EN 300 440-2 V1.4.1 clause 4.2.2)

4.3 Blocking or desensitization

Only for Equipment Class 1 and class 2 receivers. (See ETSI EN 300 440-2 V1.4.1 clause 4.2.3)

4.4 Spurious emissions (See ETSI EN 300 440-2 V1.4.1 clause 8.3)

4.4.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	R&S	FSU	1166.1660.26	Nov.29,11	1 Year
2.	Vector Signal Generator	R&S	SMBV100A	1407.6004K02	Nov.29,11	1 Year
3.	Double Ridged Horn Antenna	R&S	HF907	100276	Jan.16,11	2 Year
4	Double Ridged Horn Antenna	R&S	HF907	100268	Jan.16,11	2 Year
5	Log-periodic Dipole Antenna	R&S	HL223	100435	Jan.26,11	2 Year
6	Biconical Antenna	R&S	HK116	100431	Nov.09,10	2 Year
7	Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-462	Nov.08,10	2 Year
8	Pre-amplifier	AH	PAM-0118	10008	Jan.02,12	1 Year
9	Pre-amplifier	R&S	SCU-01	10049	Oct.25,11	1 Year
10	High Pass filter	Micro	HPM50111	324455	Jan.02,12	1 Year
11	RF Cable	Hubersuhner	W10.02	534096	Jan.02,12	1 Year
12	RF Cable	Hubersuhner	W10.02	534123	Jan.02,12	1 Year
13	RF Cable	Hubersuhner	RG 214/U	513423	Jan.02,12	1 Year
14	RF Cable	Hubersuhner	RG 214/U	523455	Jan.02,12	1 Year

4.4.2 limit

State	25MHz to 1 GHz	Above 1GHz
Operating	2 nW /-57dBm	20 nW/-47dBm

4.4.3 Test Information

EUT:	2.4G Optical Mouse
M/N:	G3O
Test Date:	2012/06/05
Ambient Temperature:	25°C
Relative Humidity:	56%
Test standard	ETSI EN 300 440-1 V1.6.1/2010-08
Test mode	Receiver mode
Power Supply	DC 3 V
Test frequency	CH Mid: 2440MHz
Measuring receiver bandwidth	120kHz for frequency below 1000MHz and 1MHz for frequency above 1000MHz.
Tested by	Tony

Note: The receiver cannot be switched off so the standby mode test is not applicable.

4.4.4 Test method

This measurement was performed in anechoic chamber

- (1) Put the EUT on the support in its standard position with associated equipment and switched on.
- (2) Use the measurement procedure as described in ETSI EN 300 440-1 V1.6.1 clause 7.3.5 (a) and clause 7.3.4 (b) to (i) to measure each spurious emissions.

4.4.5 Test result

Result For RX CH Mid 2440 MHz :

Item (Mark)	Freq (MHz)	Signal Source (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1	31.20	-62.4	-15.4	0.5	-78.3	-57	-21.3	VERTICAL
2	794.20	-85.4	7.4	3.3	-81.3	-57	-24.3	VERTICAL
3	4890	-71.3	9.9	8.7	-70.1	-47	-23.1	VERTICAL
4	385.12	-83	7.1	2.3	-78.2	-57	-21.2	HORIZONTAL
5	917.20	-82.4	7.2	3.9	-79.1	-57	-22.1	HORIZONTAL
6	4890	-74.1	9.9	8.7	-72.9	-47	-25.9	HORIZONTAL

Note: Result = Signal Source + Antenna Gain – Cable loss

5. PHOTOGRAPHS OF TEST SET-UP



6. PHOTOS OF THE EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT



Figure 3
General Appearance of the EUT

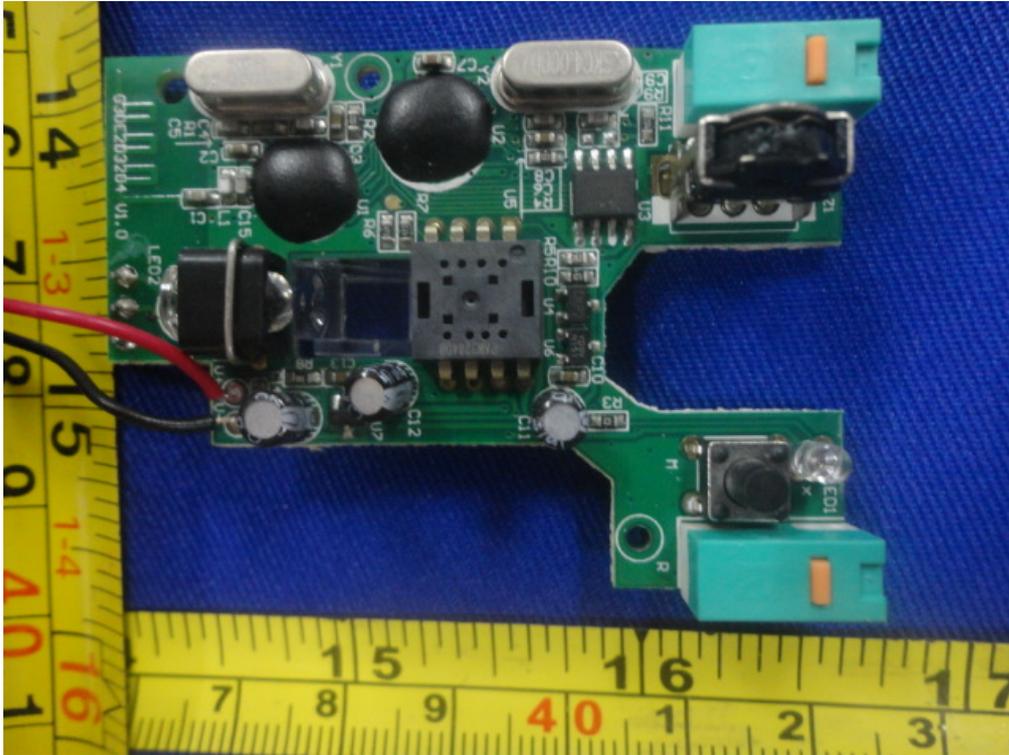


Figure 4
General Appearance of the EUT

