Declaration of Conformity We, Manufacturer

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN CHYUAN RD. SHIN-TIEN, TAIPEI HSIEN TAIWAN, R.O.C.

declare that the product (description of the apparatus, system, installation to which it refers)

SWITCHING POWER SUPPLY R3G-6650P

is in conformity with (reference to the specification under which conformity is declared) i in accordance with 2004/108/EC-EMC Directive

- ■EN 55022 : 2006+A1/2007
 Information technology equipment
 -Radio disturbance characteristics
 -Limits and methods of measurement
- ■EN 55024: 1998+A1/2001+A2/2003 Information technology equipment -Immunity characteristics -Limits and methods of measurement
- ■EN 61000-4-2 : 2009 Criteria B Electrostatic discharge requirements "ESD"
- ■EN 61000-4-3: 2006+A1/2008 Criteria A Radiated, radio frequency electromagnetic field
- ■EN 61000-4-4: 2004 Criteria B Electrical fast transient requirements "EFT"

- ■EN 61000-4-5 : 2006 Criteria B Surge Immunity requirements
- EN 61000-4-6: 2007 Criteria A Conducted Immunity
- ■EN 61000-4-8: 1993+A1/2001 Criteria A Power Frequency Magnetic Field Immunity
- Dip Criteria B
 Interruptions Criteria C
 Voltage Dip,interruptions
 Immunity requirements
- ■EN 61000-3-2 : 2006 Harmonic current requirements
- ■EN 61000-3-3: **2008**Voltage fluctuations and flicker requirements

Manufacturer					
Date:	SEP,02,2010				
Signature:	Melon Lin				
Name:	ZIPPY				

	Test-Lab
Date:	SEP,02,2010
Signature:	Karen
Name:	ZIPPY

APPLICATION FOR CERTIFICATION ON Behalf Of ZIPPY TECHNOLOGY CORP. SWITCHING POWER SUPPLY

Model#: **R3G-6650P**

FCCID:N/A

PREPARED FOR:

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN CHYUAN RD. SHIN-TIEN, TAIPEI HSIEN TAIWAN, R.O.C

REPORT BY:

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN CHYUAN RD. SHIN-TIEN, TAIPEI HSIEN TAIWAN, R.O.C

> TEL: (02)2918-8512 FAX: (02)2913-4969

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1. Test Report Certification

Applicant : ZIPPY TECHNOLOGY CORP.

Manufacturer : ZIPPY TECHNOLOGY CORP.

EUT Description : Switching Power Supply

(A) FCC ID : N/A

(B) Model No. : **R3G-6650P**

(C) Serial No. : N/A

(D) Power Supply : 115Vac/60Hz,230Vac/50Hz

MEASUREMENT PROCEDURE USED:

EN 55024 RULES EN 55022 RULES

THE DEVICE DESCRIBED ABOVE WAS TESTED BY ZIPPY SHIN JIUH CORP. TO DETERMINE THE SEVERITY LEVELS THE DEVICE CAN ENDURE AND ITS PERFORMANCE CRITERION.

THE MEASUREMENT RESULTS ARE CONTAINED IN THIS TEST REPORT AND ZIPPY SHIN JIUH CORP. IS ASSUMED FULL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THESE MEASUREMENT. ALSO, THIS REPORT SHOWS THAT THE EUT TO BE TECHNICALLY COMPLIANT WITH THE EN STANDARD.

Test Dated : <u>SEP,02,2010</u>

Test Engineer : Karen

Approve & Authorized Signer : _______ Melon-Line

2. General Information

2.1 Production Description

Description : Switching Power Supply

Model Number : R3G-6650P

Applicant : ZIPPY TECHNOLOGY CORP.

Address : 10F,No.50,MIN CHYUAN RD. SHIN-TIEN,

· TAIPEI HSIEN TAIWAN, R.O.C

FCC ID : N/A

Data Cable : N/A

PowerCord : Non-Shielded, detachable, 1.5m

2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

2.2.1 Resistor Load

Model Number : ELECTRONIC LOAD

Serial Number : N/A

FCC ID : N/A

Manufacturer : ZIPPY

Power : 650W

2.3 Test Methodology

EMI Test:

Both conducted and radiated testing were performed according to the procedures in EN 55022 Radiated testing was performed at an antenna to EUT distance of 10 meters.

EMS Test:

Performed according to procedures in EN 61000 series regulations.

2.4 Test Facility

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN CHYUAN RD. SHIN-TIEN, TAIPEI HSIEN TAIWAN, R.O.C

3. Electronic-Magnetic Interference Test

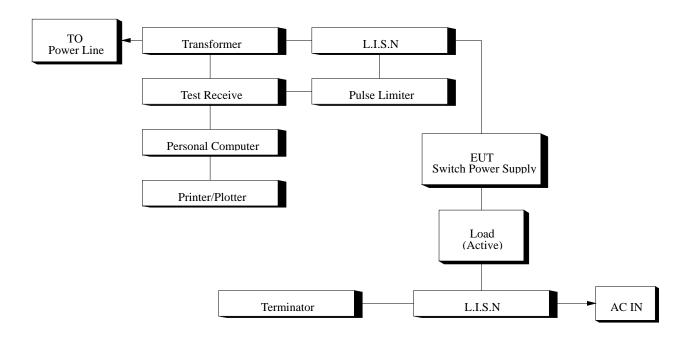
3.1 Conducted Power Line Test

3.1.1 TEST Equipment's

The following test equipment's are used during the conducted power line tests:

Item	Instrument	Manufacture	Type No:	Last Calibration
1	TEST RECEIVER	ROHDE & SCHWARZ	ESHS10	Mar.,2010
2	LISN	ROHDE & SCHWARZ	ENV4200	Jan.,2010
3	COMPUTER	Acer	Power8000	N/A
4	PRINTER	EPSON	5700L	N/A
5	SHIELDI	3M	N/A	

3.1.2 Block Diagram of Test Setup



3.1.3 Conducted Powerline Emission Limit

Maximum RF Line Voltage dB(uV)						
Frequency	Class B					
MHz	QUASI-PEAK	AVERAGE				
0.15 - 0.50	66-56	66-56				
0.50 - 5.0	56	56				
5.0 - 30	60	60				

Remarks: In the Above Table, the tighter limit applies at the band edges.

3.1.4 EUT Configuration on Measurement

The equipment's which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.1.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below :

- 3.1.5.1 Setup the EUT and simulators as shown on 3.2.
- 3.1.5.2 Turn on the power of all equipment's.

3.1.6 Conducted Emission Data

The measurement range of conducted emission which is from 0.15 MHz to 30 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

Conducted Emission Data

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Frequency	Reading L	evel dBuV	Limites
MHz	Line 1	Line 2	DBuV
0.164	49.01	48.10	65.26
0.330	35.38	34.64	59.45

Remark: All readings are Quasi-Peak values.

conduction test

EUT: R3G-6650P SPS
Manuf: ZIPPY TECH CO..LTD

Op Cond: FULL LOAD

Operator:

Test Spec: EN 55022-- Class B

Comment: Load Condition (27 36 1 1 20 2.5)

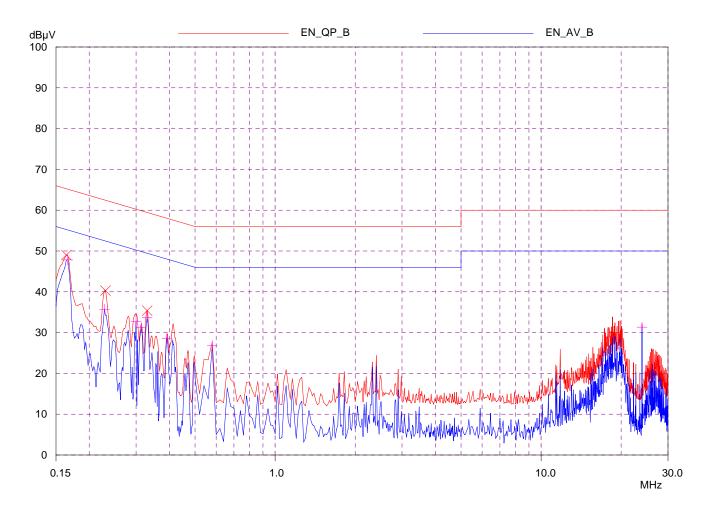
L220V

Scan Settings	(3	Ranges)							
	Freq	uencies ——				- Receiver Se	ettings —		
Start	Stop)	Step	i IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500	kHz	2kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
500kHz	5MH	Ηz	20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30M	1Hz	50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop		Name				
	1	9kHz		30MHz	CEB				

Prescan Measurement: Detectors: X QP / + AV

Meas Time: see scan settings

Peaks: 8 Acc Margin: 25 dB



conduction test

EUT: R3G-6650P SPS
Manuf: ZIPPY TECH CO..LTD

Op Cond: FULL LOAD

Operator:

Test Spec: EN 55022-- Class B

Comment: Load Condition (27 36 1 1 20 2.5)

L220V

Scan Settings	(3 Ranges)							
	— Frequencies —				Receiver Se	ttings —		
Start	Stop	Step	' IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz	2kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
500kHz	5MHz	20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz	50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB

Transducer No. Start Stop Name
1 9kHz 30MHz CEB

Prescan Measurement: Detectors: X QP / + AV

Meas Time: see scan settings

QP Delta

Phase

PΕ

Peaks: 8
Acc Margin: 25 dB

QP Limit

Peak Search Results

QP Level

Frequency

- 1	-,				
MHz	dΒμV	dΒμV	dB	-	-
0.164	49.01	65.26	16.25	N	gnd
0.23	40.29	62.45	22.16	N	gnd
0.33	35.38	59.45	24.07	N	gnd
Freque	ncy AV Level	AV Limit	AV Delta	Phase	PE
MHz	dΒμV	dΒμV	dB	-	-
0.166	47.83	55.16	7.33	N	gnd
0.228	35.72	52.52	16.80	N	gnd
0.3	32.66	50.24	17.58	N	gnd
0.314	31.24	49.86	18.62	N	gnd
0.33	33.69	49.45	15.76	N	gnd
0.392	28.63	48.02	19.39	N	gnd
0.58	26.82	46.00	19.18	N	gnd
23.95	31.34	50.00	18.66	N	gnd

^{*} limit exceeded

conduction test

EUT: R3G-6650P SPS
Manuf: ZIPPY TECH CO..LTD

Op Cond: FULL LOAD

Operator:

Test Spec: EN 55022-- Class B

Comment: Load Condition (27 36 36 1 1 20 2.2)

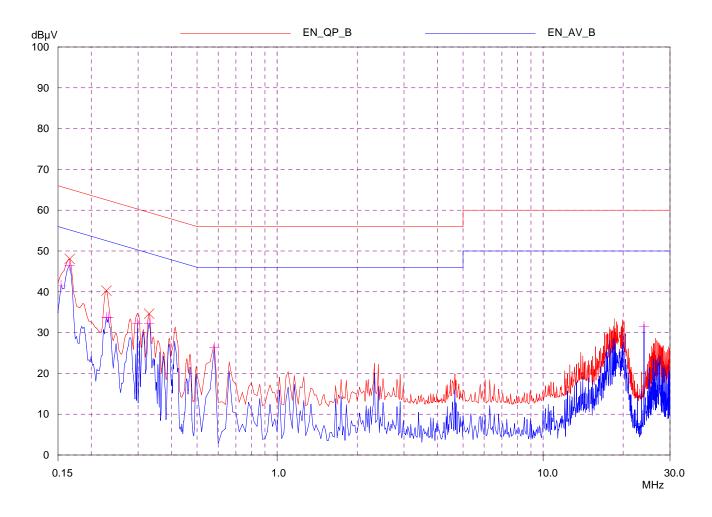
N220V

Scan Settings	(3	Ranges)							
	Freq	uencies ——				- Receiver Se	ettings —		
Start	Stop)	Step	i IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500	kHz	2kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
500kHz	5MH	łz	20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30M	lHz	50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop)	Name				
	1	9kHz		30MHz	CEB				

Prescan Measurement: Detectors: X QP / + AV

Meas Time: see scan settings

Peaks: 8 Acc Margin: 25 dB



conduction test

EUT: R3G-6650P SPS ZIPPY TECH CO..LTD Manuf:

Op Cond: **FULL LOAD**

Operator:

Test Spec: EN 55022-- Class B

1

Comment: Load Condition (27 36 36 1 1 20 2.2)

N220V

Scan Settings	(3	Ranges)									
	— Frequ	— Frequencies ———			Receiver Settings						
Start	Stop)	Step	i IF BW	Detector	M-Time	Atten	Preamp	OpRge		
150kHz	500k	кHz	2kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB		
500kHz	5MH	lz	20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB		
5MHz	5MHz 30MHz		50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB		
Transducer	No.	Start	Stop		Name						

CEB

30MHz

X QP / + AV

Detectors:

9kHz

Meas Time: see scan settings

Peaks: 8 Acc Margin: 25 dB

Peak Search Results

Prescan Measurement:

Frequency	QP Level	QP Limit	QP Delta	Phase	PE
MHz	dBµV	dBµV	dB	-	-
0.166	48.08	65.16	17.08	N	gnd
0.228	40.29	62.52	22.23	N	gnd
0.33	34.64	59.45	24.81	N	gnd
Frequency	AV Level	AV Limit	AV Delta	Phase	PE
MHz	dΒμV	dΒμV	dB	-	-
0.154 0.166 0.228 0.232 0.298 0.33 0.58	41.67 46.51 33.70 33.70 32.29 32.28 26.38	55.78 55.16 52.52 52.38 50.30 49.45 46.00	14.11 8.65 18.82 18.68 18.01 17.17	N N N N N	gnd gnd gnd gnd gnd gnd
23.95	31.50	50.00	18.50	N	gnd

^{*} limit exceeded

3.2 Radiation Emission Test

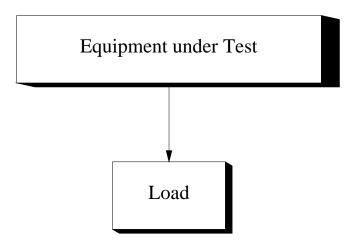
3.2.1 Test Equipment

The following test equipment's are used during the radiated emission test:

Instrument	Manufacture	Type No:	Last Calibration
Spectrum Analyzer	H.P	8594A	May.,2010
Test Receiver	IFR System	A-7550	Jun.,2010
Preamplifier	H.P	8447D	May.,2010
Biconical Ant.	Emco	3110	Jun.,2010
Log-Periodic Ant.	Emco	3146	Jun.,2010
Dipole Antenna	Emco	3121C	May.,2010

3.2.2 Test Setup

3.2.2.1 Block Diagram of Connection between EUT and simulators



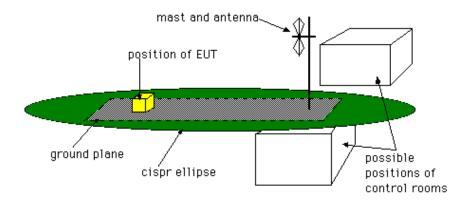
EUT: SWITCHING POWER SUPPLY

3.2.2.2 Open Field Test Site - description

The open field test site (OFTS) is designed to provide an environment in which repeatable tests of radiated emissions can be carried out.

It consists of a flat elliptical area as shown in the diagram below.

The equipment under test and the antenna are placed at the foci of the ellipse.



The antenna height should be remotely adjustable from 1m to 4m. Measuring instrumentation should be outside the ellipse at the position shown or in a room under the ground plane.

The whole or part of the site may be enclosed in an RF transparent building.

For precompliance testing a 3m test site with a fixed height antenna (at 1.5-2m height) and no metallic ground plane may be used. This may be a clear area on a car park or a grass area but should be away from large metallic structures.

3.2.3 Radiated Emission Limit

Class B Limits

Frequency	Distance	Field Strength
MHz	Meter	DB(uV/M)
30-230	3	40
230-1000	3	47

Remarks:

- 1. The tighter limit shall apply at the edge between two frequency bands.
- 2. Distance refers to the distance in meters between the measuring instrumentantenna and the closed point of any part of the device or system.

3.2.4 EUT Configuration

The equipment's which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.2.5 Operation Condition of EUT

Same as Conducted Power Line Test which is listed in 3.1.5.

3.2.6 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 1000 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

3.2.7 Test Photo and Setup



*During the radiated test, the power-supply has to test with chassis, which is not allowed to be operated stand-alone. (For user, final assembly has to comply with corresponding EMC-and safety-regulations.)

Radiated Emission Data

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

	E I1		
Frequency	Emission Level	Limits	
	Horizontal		Remark
(MHz)	dBuV/m	dBuV/m	
30~230	<30	40	
230~1000	<35	47	
	-I	1	

Radiated Emission Data

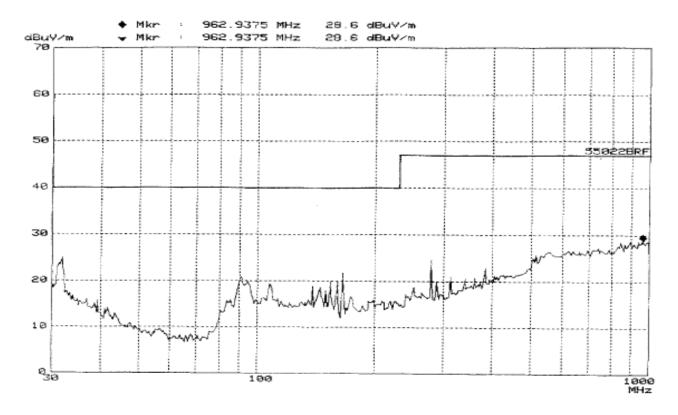
DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

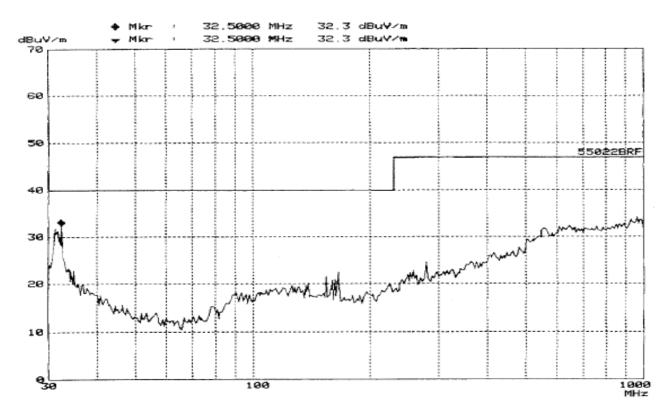
TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Frequency	Emission Level	Limits	
	Vertical	23111105	Remark
(MHz)	dBuV/m	dBuV/m	
30~230	<35	40	
230~1000	<40	47	

Horizontal Curve



Vertical Curve



4. ESD Measurement

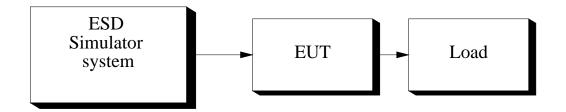
4.1 Test Equipment

The following test equipment's are used during the ESD test:

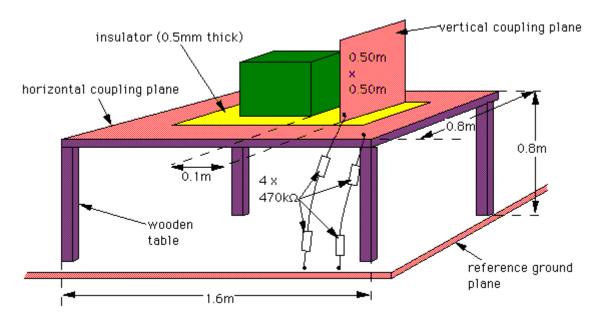
Instrument	Manufacture	Type No:	Last Calibration
ESD Simulator system	Keytek	MZ-15/EC	May.,2010
Electronic Load	D-RAM	Load-2000	N/A

4.2 Test Setup

4.2.1 Block Diagram of Connections between EUT and simulators



4.2.2 Test Setup of EUT



4.3 Severity Levels

LEVEL	TEST VOLTAGE CONTACT DISCHARGE	TEST VOLTAGE AIR DISCHARGE
1	2KV	2KV
2	4KV	4KV
3	6KV	6KV
4	8KV	8KV
X	SPECIAL	SPECIAL

4.4 EUT Operating Condition

- 1. Setup the EUT and Test Equipment as shown on 4.2
- 2. power on.

4.5 Test Procedure

Air Discharge:

This test was done above a non-conductive surfaces. The round discharge electrode about 30cm away will approach as fast as possible to touch test points of the EUT.

Discharge happens before the contact. This procedure is repeated ten times on one selected location.

4.6 Test Method

According to IEC 61000-4-2

4.7 Test Result

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : <u>SWITCH POWER SUPPLY</u> HUMIDITY : <u>65</u>%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Item	Amount of discharge	Voltage	Results
Contact discharge	500	+2KV -2KV	Pass Pass
Contact discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+2KV -2KV	Pass Pass
Air discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+6KV -6KV	Pass Pass
Air discharge	500	+8KV -8KV	Pass Pass

%Input Voltage : AC 230Vac/50Hz

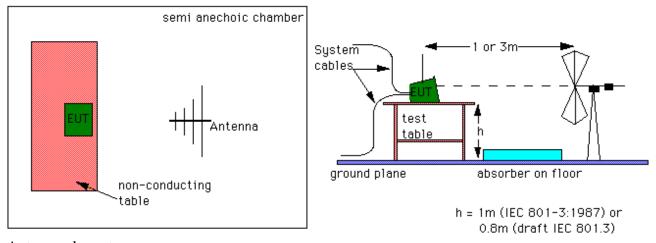
5. Radiated Susceptibility Measurement

5.1 Test Equipment

The following test equipment's are used during the RS test:

Instrument	Manufacture	Type No:	Last Calibration
Signal generator	H.P	8657A	Dec.,2009
Power amplifier	A&R	100A100	Dec.,2009
Field strength meter	A&R	FM2000	Oct.,2009
Field strength sensor	A&R	EP2000	Oct.,2009
Power antenna	A&R	AT1080	Oct.,2009

5.2 Block Diagram of Test Setup



Antennas-layout

For the upper frequency range of 200 to 1000 MHz, antennas are the normal method of producing the required field strength. This is also carried out in an anechoic chamber or a screened room. If a screened room is used it must be damped. The anechoic chamber should be used for compliance testing, the screened room may be used for precompliance testing. The fields in the screened room will not be as uniform as those obtainable in an anechoic chamber and will also not be as repeatable. The EUT is placed on a non-conductive table, 0.8 m above the reference ground plane, which in many cases will be the floor of a screened room. According to the standards, the EUT should be oriented so that its most sensitive side is facing the antenna. In practice it can be difficult to decide beforehand which is the most sensitive side, and in most cases, a series of tests will be required with the EUT in several orientations.

5.3 Severity Levels

LEVEL	FIELD STRENGTH V/M
1	1
2	3
3	10
X	SPECIAL

5.4 EUT Operating Condition

Same as section 4.4.

5.5 Test Procedure

The EUT and load are placed on a table which is 0.8 meter above ground. The field sensor is also placed on the same table to monitor field strength from transmitting antenna.

EUT is set 1 meter away from the transmitting antenna which is mounted on an antenna each time.

The antenna is fixed 1 meter above ground. Both horizontal and vertical polarization of the antenna are set on measurement. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

All the scanning conditions are as follows:

Condition of Test Remarks

1. Field Strength 3 V/M Level 2

2. Radiated Signal 80% Amplitude Modulated with a 1KHz Tone

3. Scanning Frequency4. Sweep Time of Radiated50 MHz-1 GHz60 0.0015 Decade/s

5.6 Test Method

According to IEC 61000-4-3

5.7 Test Result

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : **R3G-6650P** DISPLAY PATTERN : N/A

Frequency Range (MHz)	Position (Angle)	Polarity (HorV)	Field Strength (V/M)	Results
80-1000	0° (Front)	Н	3	Pass
80-1000	90° (Right)	Н	3	Pass
80-1000	180° (Back)	Н	3	Pass
80-1000	270° (Left)	Н	3	Pass
80-1000	0° (Front)	V	3	Pass
80-1000	90° (Right)	V	3	Pass
80-1000	180° (Back)	V	3	Pass
80-1000	270° (Left)	V	3	Pass

Test Result: Criteria A

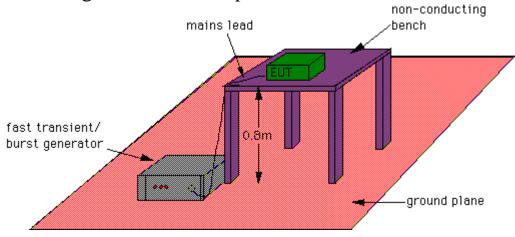
6. Electrical Fast Transient / Burst Measurement

6.1 Test Equipment

The following test equipment's are used during the EFT tests:

Instrument	Manufacturer	Type No.	Last Calibration
Fast Transient / Burst enerator	Keytek	EMCpro	May.,2010

6.2 Block Diagram of Test Setup



6.3 Severity Levels

	Open Circuit Output Test Voltage +/- 10%				
Level	On power supply lines				
1	0.5KV				
2	1KV				
3	2KV				
4	4KV				
X	SPECIAL				

6.4 EUT Operation Condition

Same as section 4.4.

6.5 Test Procedure

The EUT and its load are placed on a table which is 0.8 meter above a metal ground plane measured 1m*1m min. And 0.65 mm thick min. And projected beyond the EUT by at least 0.1m on all sides.

The EUT is away from the walls of the test AC power line test is as follows:

For Ac power line test:

The EUT is connected to the power mains through a coupling device that directly couples the EFT interference signal.

Each of the Line and Neutral conductor is impressed with burst noise for 1 min.

6.6 Test Method

According to IEC 61000-4-4.

6.7 Test Result

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : <u>SWITCH POWER SUPPLY</u> HUMIDITY : <u>65%</u>

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Inject Line	Voltage KV	Inject time (sec)	Inject Method	Result
L1	+/-1	60	60 Direct	
L2	+/-1	60	Direct	Pass
PE	+/-1	60	Direct	Pass
L1-L2	+/-1	60	Direct	Pass
L1-PE	+/-1	60	Direct	Pass
L2-PE	+/-1	60	Direct	Pass
L1,L2-PE	+/-1	60	Direct	Pass

**Input Voltage : AC 230Vac/50Hz

7. Harmonic Current Test

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

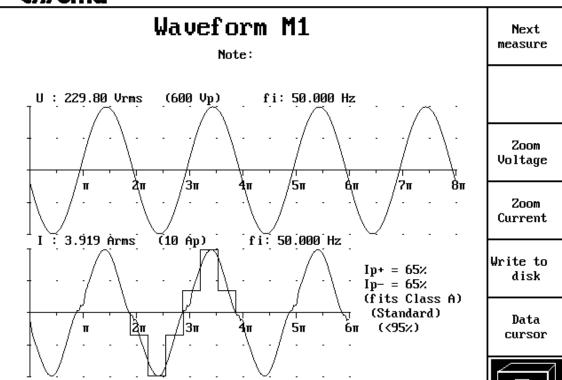
EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Item	Reading	Reading Leve A		Readin	Reading Leve A		
Hem	A	Limites	Item	A	Limites		
1	3.878						
3	0.452	2.300					
5	0.115	1.140					
7	0.075	0.770					
9	0.052	0.400					
11	0.028	0.309					
13	0.019	0.210					
15	0.021	0.150					
17	0.022	0.132					
19	0.023	0.118					
21	0.024	0.107					
23	0.023	0.098					
25	0.020	0.090					
27	0.016	0.083					
29	0.012	0.078					
31	0.007	0.073					
33	0.004	0.068					
35	0.003	0.064					
37	0.005	0.061					
39	0.007	0.058					

Chroma

ANALYZER 6630

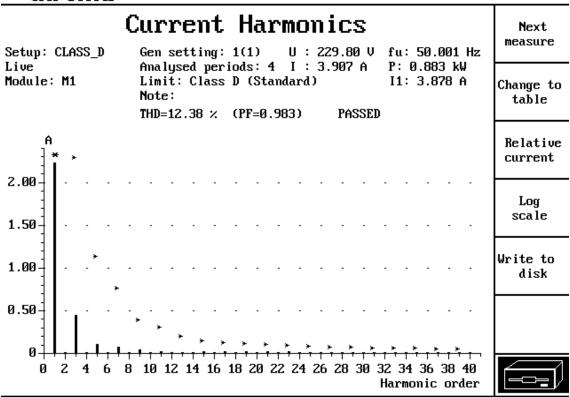


Appl: EUROPE

(1611_03)

Chroma

ANALYZER 6630



Appl: EUROPE

(1212_06)

ANALYZER 6630

		Curi	rer	nt Ha	armoi	nic	S		Next
Setup: 0	CLASS_D			ng: 1(1)		229.8		: 50.001 Hz	measure
Live Module:	M1		:: C1	ass D (S	4 I: Standard) 0.983)			0.883 kW : 3.878 A	Change to bar graph
No	A	Lim A	No	A	Lim A	No	A	Lim A	Relative current
1	3.878		15	0.021	0.150	29	0.012	0.078	
2	0.006		16	0.001		30	0.001		
3	0.452	2.300	17	0.022	0.132	31	0.007	0.073	
4	0.002		18	0.000		32	0.001		
5	0.115	1.140	19	0.023	0.118	33	0.004	0.068	
6	0.003		20	0.000		34	0.000		Write to
7	0.075	0.770	21	0.024	0.107	35	0.003	0.064	disk
8	0.001		22	0.000		36	0.001		uisk
9	0.052	0. 4 00	23	0.023	0.098	37	0.005	0.061	
10	0.001		24	0.000		38	0.000		
11	0.028	0.309	25	0.020	0.090	39	0.007	0.058	
12	0.001		26	0.001		40	0.001		
13	0.019	0.210	27	0.016	0.083				
14	0.001		28	0.000					
Current	range:	10 Ap							
							Appl: E	UROPE	(1212_07)

8. Voltage Fluctuation And Flicker Test

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Item	Reading	Limit	Result
Pst	0.000	1.00	Pass
P1t	0.000	0.65	Pass
Dc (%)	0.000	3.00	Pass
Dmax (%)	0.000	4.00	Pass
Dt (%)	0.000	0.20	Pass

9. Surge Immunity Test

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : <u>SWITCH POWER SUPPLY</u> HUMIDITY : <u>65</u>%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

		<u> </u>	<u> </u>				
Wavefor	Voltage	Output:LC	Phs Ref	Phs Ang	Tests	Delay	Result
12 Ohm	-2000V	MAINS:L1/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L1/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L1/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	270 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	0 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	90 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	270 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	0 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	90 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	270 deg.	5	60 sec	Pass

10. Conducted Immunity Test

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : SWITCH POWER SUPPLY HUMIDITY : 65%

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Frequency Range (MHz)	Polarity (HorV)	Field Strength (V/M)	Results
0.15-80	Н	3	Pass

INJECTION TYPE: DIRECT CDN Type M3

TEST CONDITION : Step:1% Dwell Time : 3sec

Test result: Criteria A

11. Voltage Dip, Interruptions Immiunity Test

DATE OF TEST : SEP,02,2010 TEMPERATURE : 26° C

EUT : <u>SWITCH POWER SUPPLY</u> HUMIDITY : <u>65%</u>

TEST MODE : R3G-6650P DISPLAY PATTERN : N/A

Test	Phase	Reduction	Duration	Performance		Result
Voltage	Angle	%	(Periods)	Required	Observation	Resuit
	0 deg.		0.5	В	A	Pass
	90 deg.	. 050/	0.5	В	A	Pass
	180 deg.	>95%	0.5	В	A	Pass
	270 deg.		0.5	В	A	Pass
	0 deg.		25	C	A	Pass
AC 115V	90 deg.	30%	25	С	A	Pass
AC 113 V	180 deg.	3070	25	C	A	Pass
	270 deg.		25	C	A	Pass
	0 deg.		250	C	C	Pass
	90 deg.	>95%	250	C	C	Pass
	180 deg.		250	С	С	Pass
	270 deg.		250	С	C	Pass
	0 deg.	>95%	0.5	В	A	Pass
	90 deg.		0.5	В	A	Pass
	180 deg.		0.5	В	A	Pass
	270 deg.		0.5	В	A	Pass
	0 deg.		25	C	A	Pass
AC 230V	90 deg.	30%	25	C	A	Pass
AC 230 V	180 deg.	3070	25	C	A	Pass
	270 deg.		25	C	A	Pass
	0 deg.		250	C	C	Pass
	90 deg.	>95%	250	C	С	Pass
	180 deg.	//3/0	250	C	С	Pass
	270 deg.		250	C	C	Pass

- 12. Photographs1. Front view of Power Supply
- 2.Back view of Power Supply



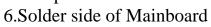


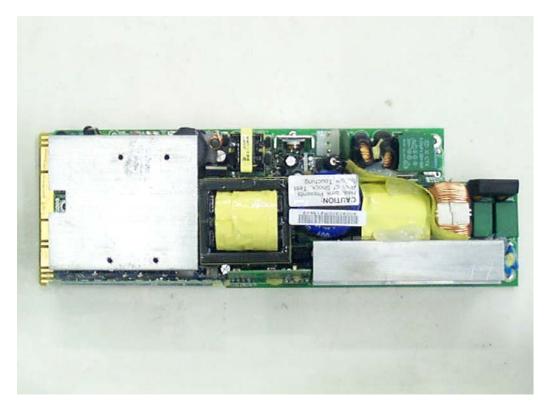
- 3.Front view of Power Supply 4.Back view of Power Supply

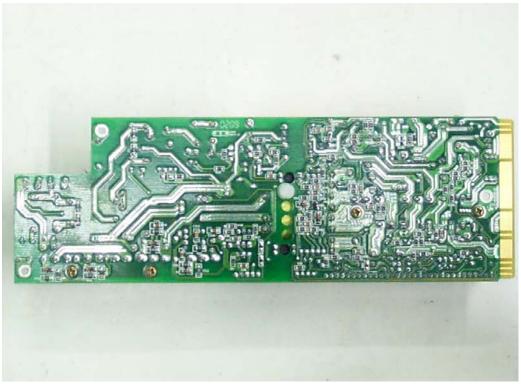




5.Component side of Mainboard

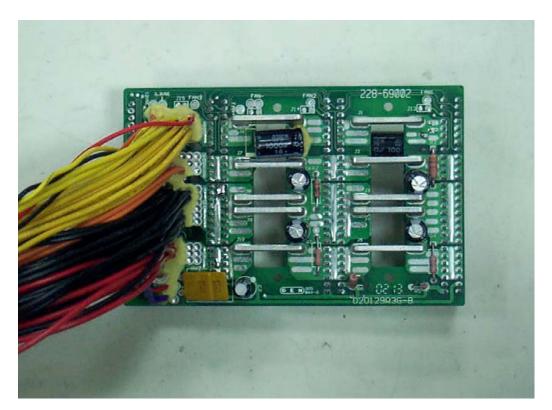


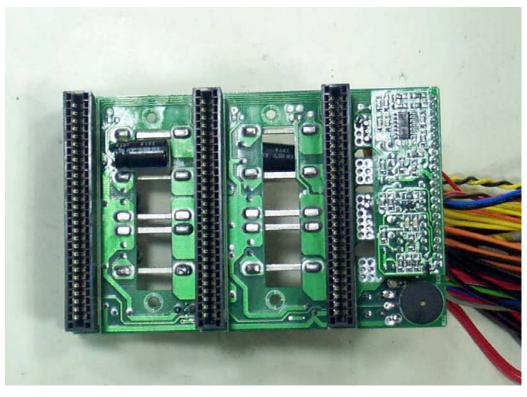




7. Component side of Mainboard

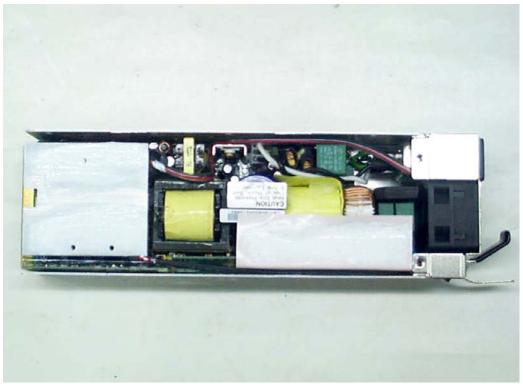
8. Solder side of Mainboard



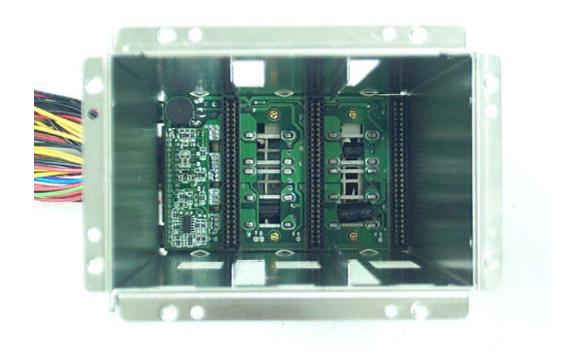


9. Inside view of Power Supply 10.Inside view of Power Supply





- 11.Inside view of Power Supply
- 12.Test view





13. EMI Reduction Method During Compliance Testing

1.No modification was made during test.