

Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 1 of 29

RADIO FREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE)

OF

Product Name: High Power Wireless Outdoor Bridge/AP/CPE

LanReady, CenWell, Cerio, 4ipnet, CLYDON, Grand-tek,

Brand Name: Pheenet, RASPBERRY, Trendware, Wavecore, PCI, USC,

Cipherium

WCB1000H5PX, WCB1000H5PZ, WCB1010H5PX, WCB1010H5PZ, CRB-1000H5PX, CRB-1010H5PX,

OW-100HG, OW-110HG, OWL500, OWL510,

Model Name: WaveMax 2450, AC-1022-SG, GLB-1022-SG,

CPE-2000GN-1, CPE-2010G, SuperStorm2,

TEW-455APBO v2, TEW-456APBO, WV-100CPE, WV-110CPE,CQW-1000OD,CQW-1010OD,A561,A560

Model Different: Please refer to page 5 for detail

FCC ID: SCD020052

Report No.: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Prepared for: LanReady Technologies Inc.

3F, No. 116, Sinhu 2nd Rd., Neihu District, Taipei City 114,

Taiwan (R.O.C.)

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei

County, Taiwan.

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 2 of 29

VERIFICATION OF COMPLIANCE

Applicant: LanReady Technologies Inc.

3F, No. 116, Sinhu 2nd Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

Product Name: High Power Wireless Outdoor Bridge/AP/CPE

LanReady, CenWell, Cerio, 4ipnet, CLYDON, Grand-tek, **Brand Name:**

Pheenet, RASPBERRY, Trendware, Wavecore, PCI, USC, Cipherium

FCC ID: SCD020052

WCB1000H5PX, WCB1000H5PZ, WCB1010H5PX, WCB1010H5PZ,

CRB-1000H5PX, CRB-1010H5PX, OW-100HG, OW-110HG, OWL500, OWL510,

Model No.: WaveMax 2450, AC-1022-SG, GLB-1022-SG, CPE-2000GN-1, CPE-2010G,

SuperStorm2, TEW-455APBO v2, TEW-456APBO, WV-100CPE, WV-110CPE,

CQW-1000OD, CQW-1010OD, A561, A560

Model Difference: Please refer to page 5 for detail

File Number: ER/2009/50032-02

Date of test: Sep. 01, 2009 ~ Sep. 01, 2009

Date of EUT Received: Sep. 01, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091 and RSS102.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Brian Chang	Date	Sep. 01, 2009	
_	Brian Chang / Engineer			
Prepared By:	Alex Hsieh	Date	Sep. 01, 2009	
Approved By:	Alex Hsieh / Sr. Engineer Jim Chang / Supervisor	Date	Sep. 01, 2009	

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 3 of 28

Report Version

Version No.	Date	Description
00	Sep. 01, 2009	Initial creation of document
01	Oct. 21, 2009	Delete test data for Omni antenna.

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 4 of 28

Table of Contents

1.	GENI	ERAL INFORMATION	6
	1.1	STANDARD APPLICABLE	7
	1.2	MAXIMUM PERMISSIBLE EXPOSURE (MPE) EVALUATION	8
APP	ENDL	X 1 PHOTOGRPHS OF EUT	9

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 5 of 28

	Model difference table				
		Big Housing	Mid Housing	Small Housing	Small Housing
Antenna	Brand	Patch 1	Patch 2	Patch 3	Patch 4
1	Grand-tek	GLB-1022-SG	AC-1022-SG		
2	Trendware	TEW-455APBO v2			
3	Trendware	TEW-456APBO			
4	Pheenet			CPE2010G	CPE-2000GN-1
5	Cerio			OW-110HG	OW-100HG
6	CLYDON				WaveMax 2450
7	RASPBERRY			SuperStorm2	
8	4ipnet			OWL510	OWL500
0	I D 1			WCB1010H5PX	WCB1000H5PX
9	LanReady			WCB1010H5PZ	WCB1000H5PZ
10	CenWell			CRB-1010H5PX	CRB-1000H5PX
11	Wavecore			WV-110CPE	WV-100CPE
12	PCI			CQW-1010OD	CQW-1000OD
13	USC			A561	A560
14	Cipherium			A561	A560

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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 6 of 28

1. GENERAL INFORMATION

General:

h	•		
Product Name	High Power Wireless Outdoor Bridge/AP/CPE		
Brand Name	LanReady, CenWell, Cerio, 4ipnet, CLYDON, Grand-tek, Pheenet, RASPBERRY, Trendware, Wavecore, PCI, USC, Cipherium		
	WCB1000H5PX, WCB1000H5PZ, WCB1010H5PX, WCB1010H5PZ,		
	CRB-1000H5PX, CRB-1010H5PX, OW-100HG, OW-110HG, OWL500, OWL510,		
Model Name	WaveMax 2450, AC-1022-SG, GLB-1022-SG, CPE-2000GN-1, CPE-2010G,		
	SuperStorm2, TEW-455APBO v2, TEW-456APBO, WV-100CPE, WV-110CPE,		
	CQW-1000OD,CQW-1010OD, A561, A560		
Model Difference	Please refer to page 5 for detail		
	18V or 48V dc by AC/DC power adapter		
Power Supply	Adapter:	1. Model No.: A5-20S48V 2. Model No.: SW1801000-W01	

WLAN:

Frequency Range:	2412 – 2462 MHz	
Channel number:	11 channels	
Max. Output Power:	Patch 1 Internal Antenna 802.11 b: 26.85 dBm (Peak) 802.11 g: 24.15 dBm (Peak)	
Modulation Technology:	DSSS, OFDM	
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM. 16QAM, QPSK, BPSK for OFDM	
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps	
Antenna Designation:	Patch 4 External Antenna, Gain:8.66dBi Patch 3 Internal Antenna, Gain:8.94dBi Patch 2 Internal Antenna, Gain:11.29dBi Patch 1 Internal Antenna, Gain:12.84dBi	
Type of Emission	16M48M4D	

The EUT is compliance with IEEE 802.11 b/g Standard.

This report applies for frequency IEEE 802.11 b/g

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 7 of 28

1.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(minute)	
	Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	$*(180/f^2)$	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	/	F/1500	30	
1500-15000	/	/	1.0	30	

F = frequency in MHz

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^{* =} Plane-wave equipment power density



Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 8 of 28

1.2 Maximum Permissible Exposure (MPE) Evaluation

MPE Prediction (802.11b) for Patch 1 Internal Antenna (worse case)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4 \pi R^2$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

2437MHz

Maximum peak output power at antenna input terminal:	26.85	(dBm)
Maximum peak output power at antenna input terminal:	484.1723676	(mW)
Duty cycle:	100	(%)
Maximum Pav :	484.1723676	(mW)
Antenna gain (typical):	12.84	(dBi)
Maximum antenna gain:	19.23091729	(numeric)
Prediction distance:	30	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm2)
Power density at predication frequency at 30 (cm)	0.8236977	(mW/cm^2)
Measurement Result:		
The predicted power density level at 30 cm is	8.236976959	(W/m^2)
This is below the uncontrolled exposure limit of 1 mW/cm	2437	MHz

Measurement Result

The predicted power density level at 30 cm is 0.8236977mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437MHz.

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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 9 of 28

APPENDIX 1 PHOTOGRAPHS OF EUT

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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 10 of 28

All of EUT



Adapter-1



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 11 of 28

Adapter-2



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 12 of 28

Front View of EUT (Patch 4 External Antenna)



Back View of EUT (Patch 4 External Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 13 of 28

Side View of EUT – 1 (Patch 4 External Antenna)



Front View of EUT (Patch 3 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 14 of 28

Back View of EUT (Patch 3 Internal Antenna)



Side View of EUT – 1 (Patch 3 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 15 of 28

Side View of EUT – 2 (Patch 3 Internal Antenna)



Side View of EUT – 3 (Patch 3 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 16 of 28

Side View of EUT – 4 (Patch 3 Internal Antenna)



Front View of EUT (Patch 2 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 17 of 28

Back View of EUT (Patch 2 Internal Antenna)



Side View of EUT – 1 (Patch 2 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 18 of 28

Side View of EUT – 2 (Patch 2 Internal Antenna)



Side View of EUT – 3 (Patch 2 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009 Page: 19 of 28

Side View of EUT – 4 (Patch 2 Internal Antenna)



Front View of EUT (Patch 1 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009 Page: 20 of 28

Back View of EUT (Patch 1 Internal Antenna)



Side View of EUT – 1 (Patch 1 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 21 of 28

Side View of EUT – 2 (Patch 1 Internal Antenna)



Side View of EUT – 3 (Patch 1 Internal Antenna)



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Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 22 of 28

Side View of EUT – 4 (Patch 1 Internal Antenna)



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Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 23 of 28

Open View of EUT – 1 (Patch 4 External Antenna)



Open View of EUT – 2 (Patch 4 External Antenna)



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Report No: ER/2009/50032-02

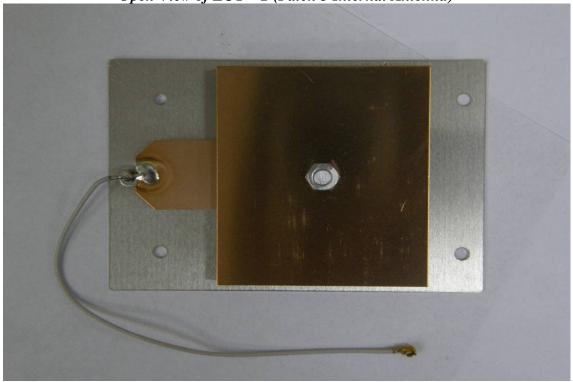
Issue Date: Sep. 01, 2009

Page: 24 of 28

Open View of EUT – 1 (Patch 3 Internal Antenna)



Open View of EUT – 2 (Patch 3 Internal Antenna)



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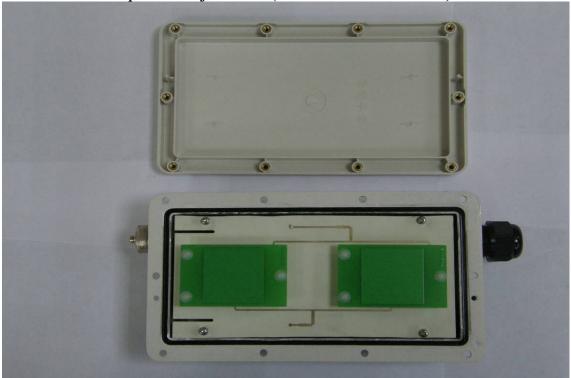
Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 25 of 28

Open View of EUT - 1 (Patch 2 Internal Antenna)



Open View of EUT – 2 (Patch 2 Internal Antenna)



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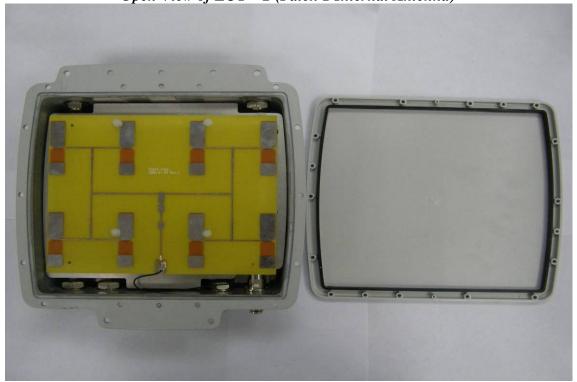
Report No: ER/2009/50032-02 Issue Date: Sep. 01, 2009

Page: 26 of 28

Open View of EUT - 1 (Patch 1 Internal Antenna)



Open View of EUT – 2 (Patch 1 Internal Antenna)



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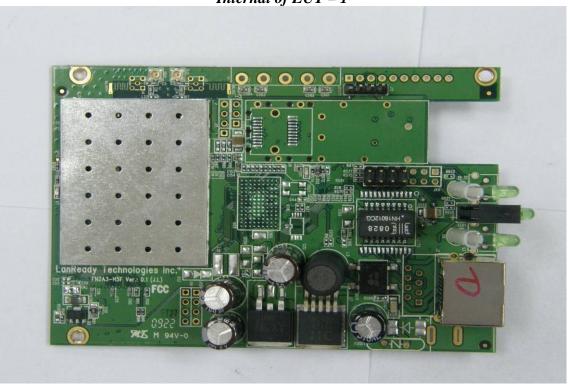


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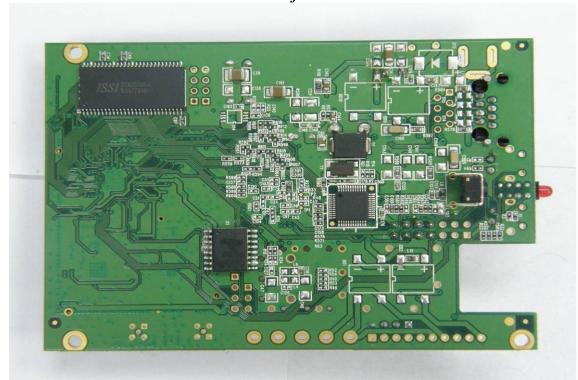
Issue Date: Sep. 01, 2009

Page: 27 of 28

Internal of EUT – 1



Internal of EUT – 2



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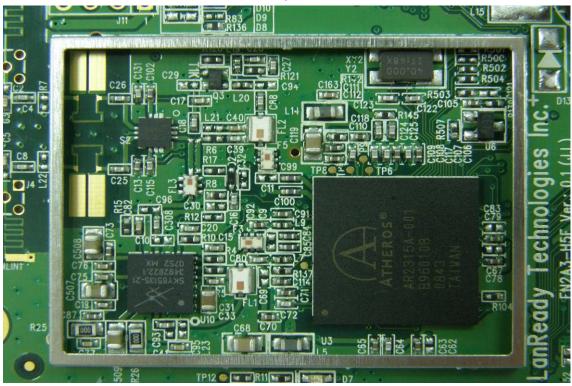


Report No: ER/2009/50032-02

Issue Date: Sep. 01, 2009

Page: 28 of 28

Internal of EUT – 3



~ End of Report ~

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