

RADIO FREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE)

OF

Product Name: Heavy Equipment Unit/Container Tracking System

Brand Name: PORTMAN

Model Name: CTS-100XT

FCC ID: TBQCTS-100XT

Report No.: EH/2008/90001

Issue Date: Dec. 02, 2008

Prepared for: Portman Electronics (shenzhen) CO.,LTD
9th Building, Tong Fuyu Industrial Park,
Longhua, Baoan, Shenzhen 518109, China

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Portman Electronics (shenzhen) CO.,LTD
9th Building, Tong Fuyu Industrial Park, Longhua, Baoan, Shenzhen
518109, China

Product Name: Heavy Equipment Unit/Container Tracking System

FCC ID Number: TBQCTS-100XT

Brand Name: PORTMAN

Model No.: CTS-100XT

Model Difference: N/A

File Number: EH/2008/90001

Date of test: Sep. 03, 2008 ~ Nov. 11, 2008

Date of EUT Received: Sep. 02, 2008

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.

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

Test By:		Date:	Dec. 02, 2008
	<hr/>		<hr/>
	<i>Arno Hsieh / Sr. Engineer</i>		
Prepared By:		Date:	Dec. 02, 2008
	<hr/>		<hr/>
	<i>Gigi Yeh / Clerk</i>		
Approved By:		Date:	Dec. 02, 2008
	<hr/>		<hr/>
	<i>Vincent Su/Manager</i>		

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Version

Version No.	Date	Description
00	Dec. 02, 2008	Initial creation of document

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1. GENERAL INFORMATION

Product Name:	Heavy Equipment Unit/Container Tracking System	
Brand Name:	PORTMAN	
Model Name:	CTS-100XT	
Model Difference:	N/A	
Data Cable (USB):	N/A	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery Model:	D2-LP-083465X2P, Supplier: D2 TECHNOLOGY CO., LTD
	Adapter Model:	GFP051U-0510 Supplier: GME

GSM:

Cellular Phone Standards Frequency Range and Power	GSM /GPRS 850, Class 10	824 MHz– 849MHz	33 dBm
	GSM / GPRS 1900, Class 10	1850MHz – 1910MHz	30 dBm
final amplifier voltage and current information		DC voltage (V)	DC current (mA)
	GSM 850	5Vdc	602
	GSM 1900	5Vdc	617
Type of Emission	GSM: 300KGXW		
Hardware Version	C7		
Software Version	1.00,CTS100-CTS100C4-PTM-5.1.5-1.00		
IMEI	352024020342774		

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GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	19.2MHz.
Antenna Designation	mono pole

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and part 15.247 of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

1.3 Special Accessories

Not available for this EUT intended for grant.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (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

* = Plane-wave equipment power density

1.6 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the CTS-100XT. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded that the MO300QBM module will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz)

The ERP of CTS-100XT in cellular band is 29.24dBm max at GSM/GPRS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	126.51	40.12	-7.87	3.62	28.62	38.45
				H	126.58	40.31	-7.87	3.62	28.81	38.45
			E1	V	126.82	40.43	-7.87	3.62	28.93	38.45
				H	122.47	36.20	-7.87	3.62	24.70	38.45
			E2	V	124.92	38.53	-7.87	3.62	27.03	38.45
				H	127.01	40.74	-7.87	3.62	29.24	38.45
	836.60	190	H	V	125.60	39.35	-7.88	3.65	27.82	38.45
				H	125.64	39.41	-7.88	3.65	27.88	38.45
			E1	V	126.03	39.78	-7.88	3.65	28.25	38.45
				H	121.97	35.74	-7.88	3.65	24.21	38.45
			E2	V	124.13	37.88	-7.88	3.65	26.35	38.45
				H	125.86	39.63	-7.88	3.65	28.10	38.45
	848.80	251	H	V	123.90	37.78	-7.88	3.68	26.22	38.45
				H	124.72	38.53	-7.88	3.68	26.97	38.45
			E1	V	124.73	38.61	-7.88	3.68	27.05	38.45
				H	121.54	35.35	-7.88	3.68	23.79	38.45
			E2	V	123.59	37.47	-7.88	3.68	25.91	38.45
				H	124.83	38.64	-7.88	3.68	27.08	38.45

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$$\text{EIRP} = 29.24 + 2.14 = 31.38 \text{ dBm} = 1374.04 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} * \text{Duty Cycle} / (4 * R^2) \\ &= 1374.04 * 0.25 / (4 * 20^2) = 0.068 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 824/1500 = 0.55 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore CTS-100XT in cellular band is compliant with the FCC rules on RF exposure.

Operation in PCS band (1850 – 1910 MHz)

The EIRP of CTS-100XT in PCS band is 27.20 dBm. max. The resulted EIRP can be expressed as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	123.85	19.46	9.90	5.56	23.80	33.00
				H	123.79	19.61	9.90	5.56	23.95	33.00
			E1	V	123.35	18.96	9.90	5.56	23.30	33.00
				H	123.27	19.09	9.90	5.56	23.43	33.00
			E2	V	127.25	22.86	9.90	5.56	27.20	33.00
				H	124.30	20.12	9.90	5.84	24.18	33.00
	1880.00	661	H	V	123.28	18.92	9.99	5.61	23.30	33.00
				H	123.10	18.96	9.99	5.61	23.33	33.00
			E1	V	122.89	18.53	9.99	5.61	22.91	33.00
				H	123.90	19.76	9.99	5.61	24.13	33.00
			E2	V	127.06	22.70	9.99	5.61	27.08	33.00
				H	123.94	19.80	9.99	5.61	24.17	33.00
	1909.80	810	H	V	120.50	16.17	10.08	5.66	20.59	33.00
				H	119.23	15.12	10.08	5.66	19.54	33.00
			E1	V	121.04	16.71	10.08	5.66	21.13	33.00
				H	119.14	15.03	10.08	5.66	19.45	33.00
			E2	V	123.77	19.44	10.08	5.66	23.86	33.00
				H	121.06	16.95	10.08	5.66	21.37	33.00

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$$\text{EIRP} = 27.20 \text{ dBm} = 524.81 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} * \text{Duty Cycle} / (4 * R^2) \\ &= 524.81 * 0.25 / (4 * 20^2) = 0.0026 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 1.0 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore CTS-100XT in PCS band is compliant with the FCC rules on RF exposure.

APPENDIX 1

PHOTOGRPHS OF EUT

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All of EUT



Front View of EUT



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Back View of EUT*Site View of EUT - 1*

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Site View of EUT – 2*Adaptor (model: GFP051U-0510)*

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Open View of EUT

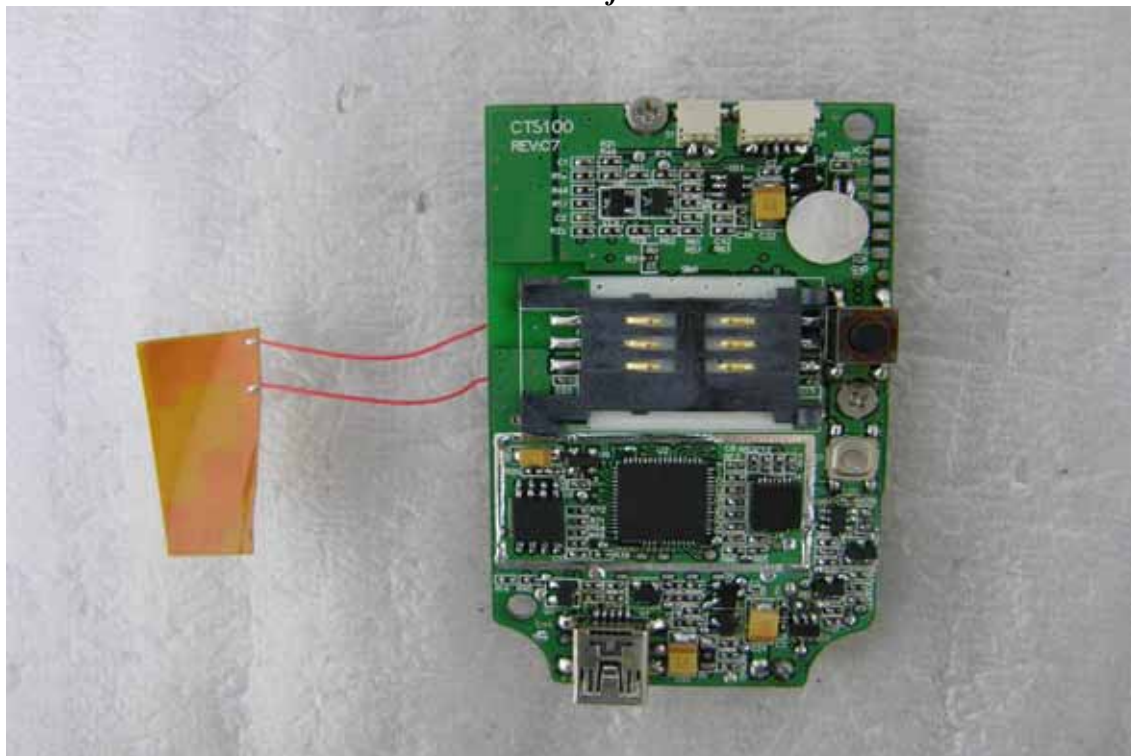


Internal View of EUT - 1



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Internal View of EUT – 2



Internal View of EUT – 3 (GSM Module)



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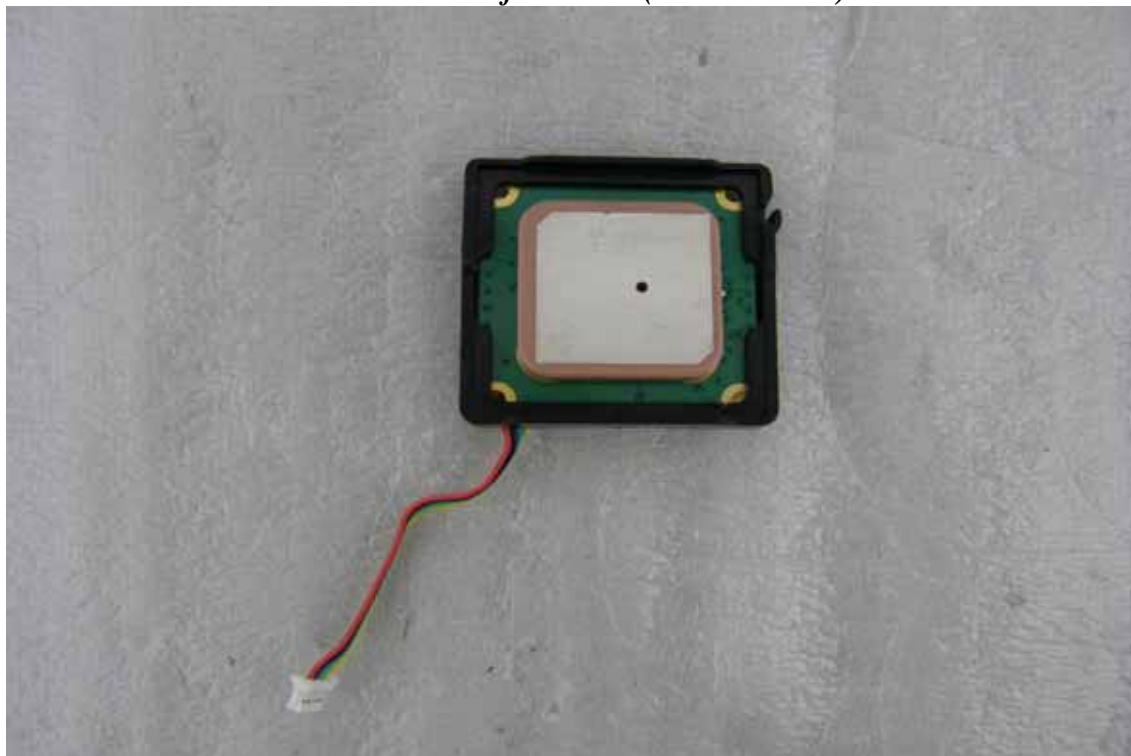
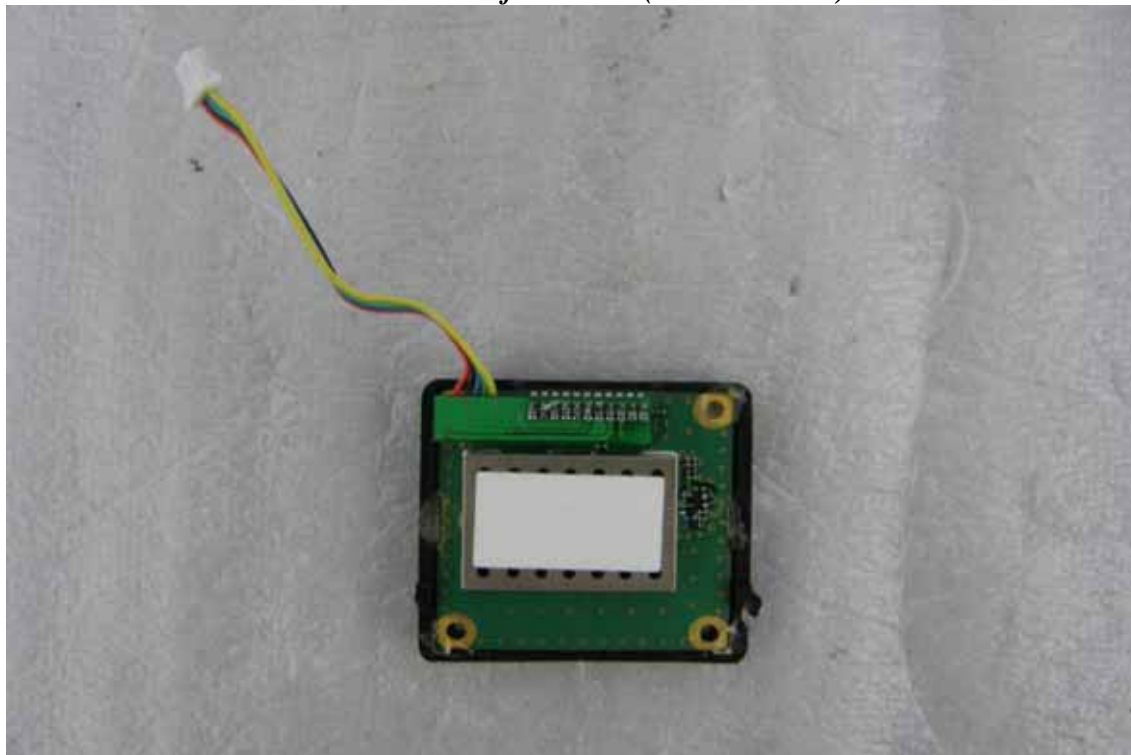
Internal View of EUT – 4 (GSM Module)



Internal View of EUT – 5 (GSM Module)



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Internal View of EUT – 6 (GPS Antenna)*Internal View of EUT – 7 (GPS Antenna)*

~ End of Report ~

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