

RADIO FREQUENCY RADIATION EXPOSURE REPORT

Mobiles /Fixed Base Station Maximum Permissible Exposure (MPE) OF

Product Name: POS terminal

Brand Name: ingenico

Model Name: iWP250

FCC ID: XKBIWP250

IC: 2586D-IWP250

Report No.: EH/2009/30029

Issue Date: Jul. 28, 2009

Prepared for: INGENICO
1 rue Claude Chappe BP346
Guilherand-Granges France

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: INGENICO
1 rue Claude Chappe BP346 Guilhaierand-Granges France

Product Name: POS terminal

FCC ID Number: XKBIWP250

IC: 2586D-IWP250

Brand Name: ingenico

Model No.: iWP250

Model Difference: N/A

File Number: EH/2009/30029

Date of test: Jul. 17, 2009 ~ Jul. 27, 2009

Date of EUT Received: Mar. 27, 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.

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

Test By:

Jason Wu

Date:

Jul. 28, 2009

Jason Wu/ Asst. Supervisor

Prepared By:

Gigi yeh

Date:

Jul. 28, 2009

Gigi Yeh / Clerk

Approved By:

Jim Chang

Date:

Jul. 28, 2009

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Jul. 28, 2009	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name:	POS terminal	
Brand Name:	ingenico	
Model Name:	iWP250	
Model Difference:	N/A	
Power Supply	24Vdc by AC/DC power adapter	
	Adapter:	Model: EA11002B, Supplier: EDAC

GSM / DCS:

Cellular Phone Standards Frequency Range and Power	Operation Band	Frequency Range	Rated Power
	GSM/EDGE 850, class10	824 MHz– 849MHz	33dBm
	DCS/EDGE 1900, class10	1850MHz – 1910MHz	30dBm
Final Amplifier Voltage and Current Information	DC voltage (V)		DC current (mA)
	GSM 850, class10	24Vdc	325
	DCS1900, class10	24Vdc	310
	DEGE 850	24Vdc	315
	EDGE 1900	24Vdc	305
Antenna Designation:	PIFA Antenna / -2.3 dBi.		
Type of Emission	300KGXW		
IMEI	354060011204555		

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WLAN:

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Max. Output Power:	802.11 b: 16.61 dBm (Peak) 802.11 g: 16.54 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:	PIFA Antenna / -3.6dBi.

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

Bluetooth:

Bluetooth Version	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	1.93 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	PIFA Antenna / -3.9dBi.

The EUT is compliance with Bluetooth 2.1 Standard.

RFID:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Operating Mode	Point-to-Point
Antenna Type	A permanent fixed antenna, which is built-In, designed as an indispensable part of the EUT.
Module Type	ASK

The EUT is compliance with RFID Standard.

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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

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1.6 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the iWP250. 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 iWP250 in cellular band is 31.31dBm 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	120.19	33.80	-7.87	3.62	22.30	38.45
				H	126.56	40.29	-7.87	3.62	28.79	38.45
	836.60	190	H	V	121.57	35.32	-7.88	3.65	23.79	38.45
				H	128.17	41.94	-7.88	3.65	30.41	38.45
	848.80	251	H	V	122.36	36.24	-7.88	3.68	24.68	38.45
				H	129.06	42.87	-7.88	3.68	31.31	38.45

$$\text{EIRP} = 31.31 + 2.14 = 33.45 \text{ dBm} = 2213.09 \text{ mW}$$

$$\text{Power Density} = \text{EIRP} \times \text{Duty Cycle} / (4 \times R^2)$$

$$= 2213.09 \times 0.25 / (4 \times 20^2) = 0.110 \text{ mW/cm}^2$$

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 iWP250 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	122.94	18.55	9.90	5.56	22.89	33.00
				H	124.36	20.18	9.90	5.56	24.52	33.00
	1880.00	661	H	V	123.52	19.16	9.99	5.61	23.54	33.00
				H	123.49	19.35	9.99	5.61	23.72	33.00
	1909.80	810	H	V	123.68	19.35	10.08	5.66	23.77	33.00
				H	123.90	19.79	10.08	5.66	24.21	33.00

$$\text{EIRP} = 24.52 \text{ dBm} = 524.81 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} \times \text{Duty Cycle} / (4 \pi R^2) \\ &= 172.98 \times 0.25 / (4 \pi \times 20^2) = 0.009 \text{ mW/cm}^2 \end{aligned}$$

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 iWP250 in PCS band is compliant with the FCC rules on RF exposure.

APPENDIX 1

PHOTOGRPHS OF EUT

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All View of EUT



Front View of EUT



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Back View of EUT



Side View of EUT - 1



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Side View of EUT – 2



Side View of EUT – 3



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Side View of EUT – 4



Side View of EUT – 5



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Adaptor



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Open View of EUT – 1



Open View of EUT – 2



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Open View of EUT – 3

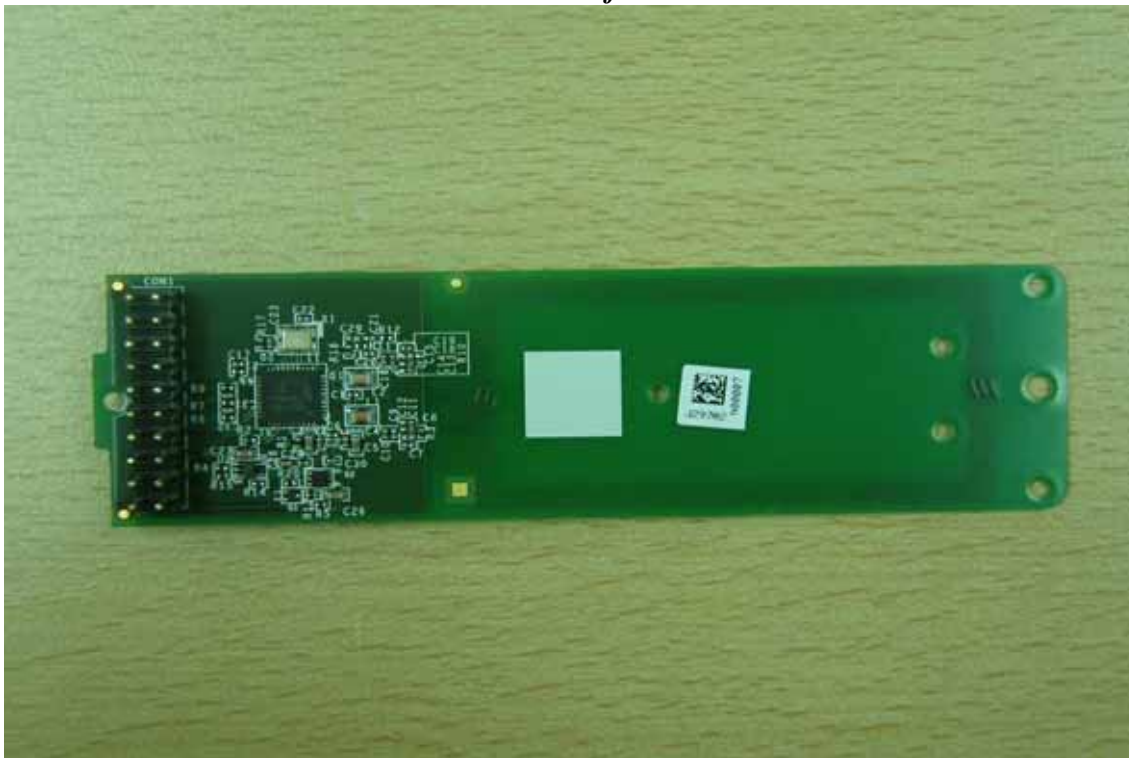


Internal View of EUT – 1

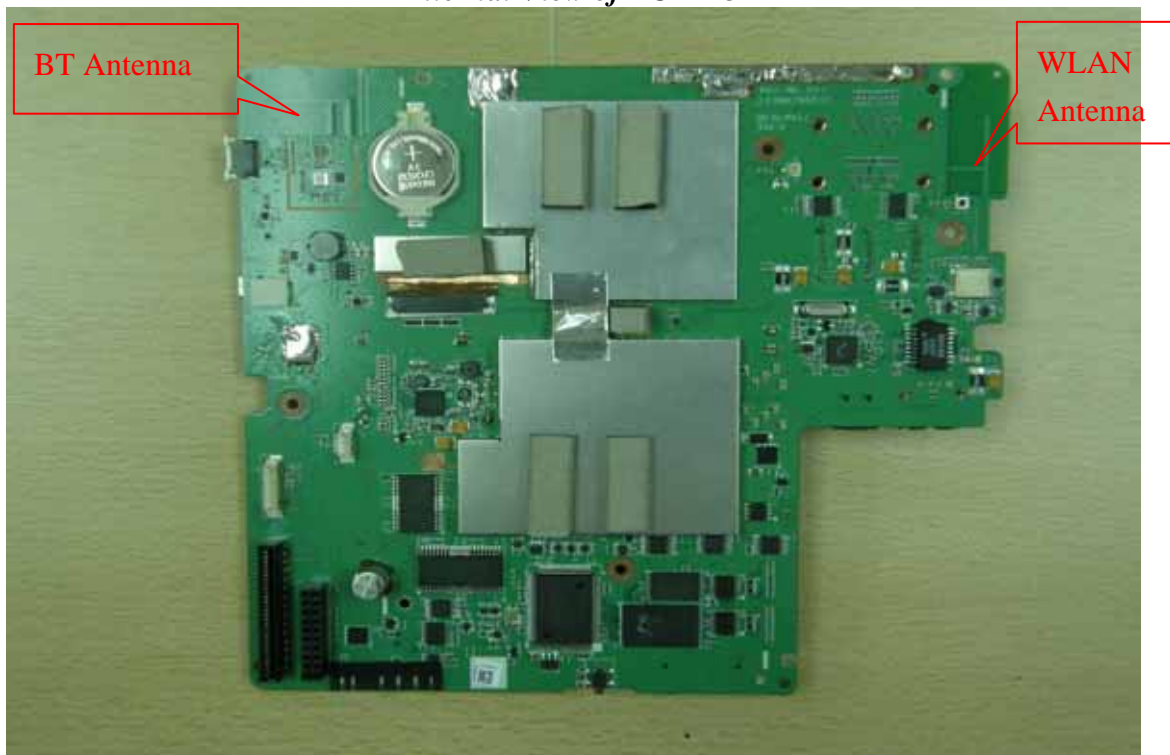


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Internal View of EUT – 2

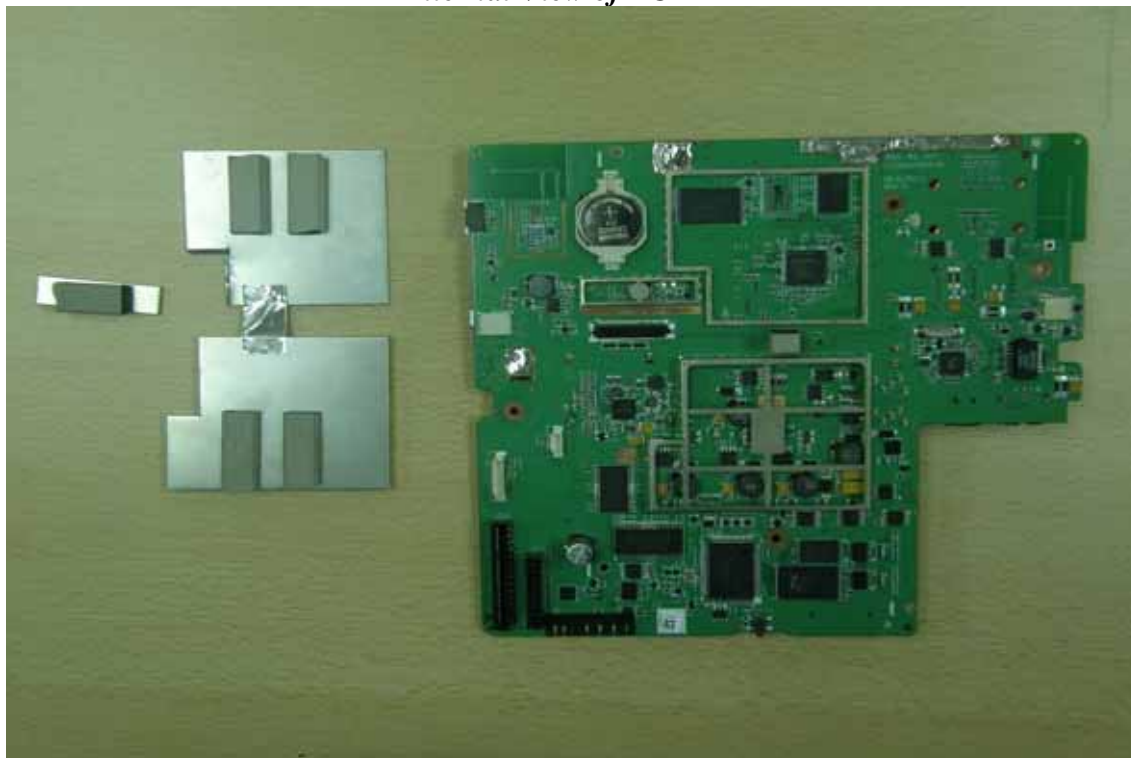


Internal View of EUT – 3

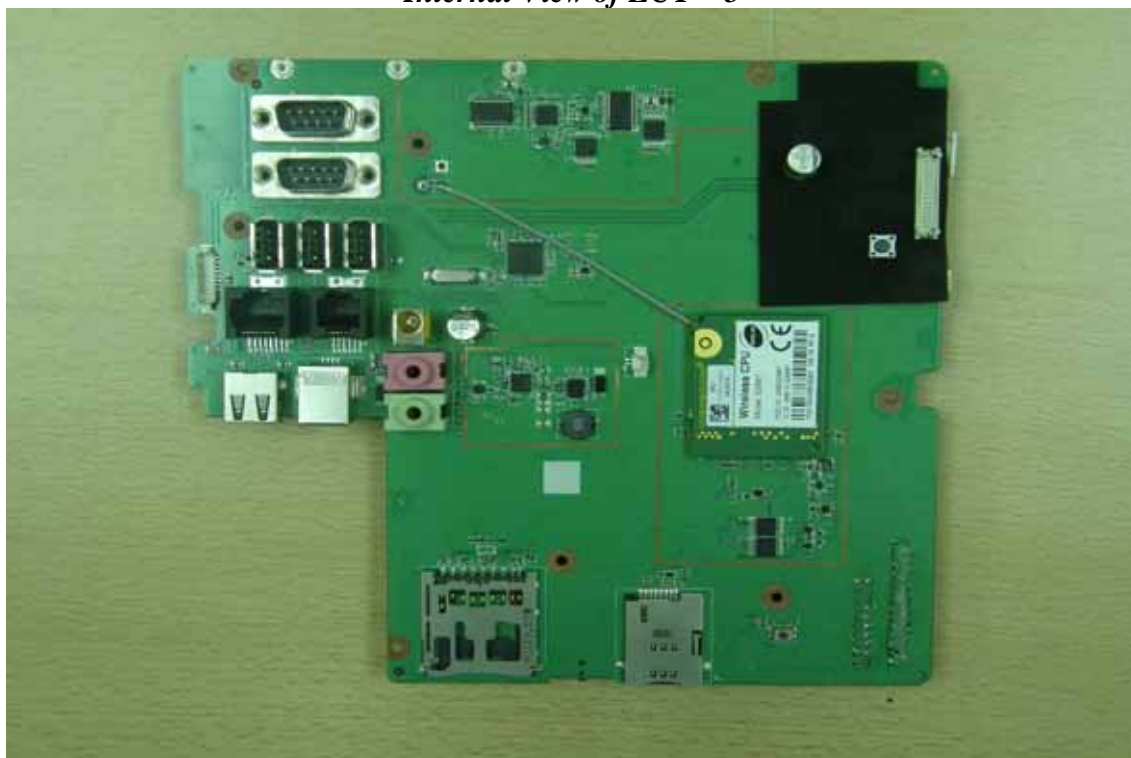


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Internal View of EUT – 4



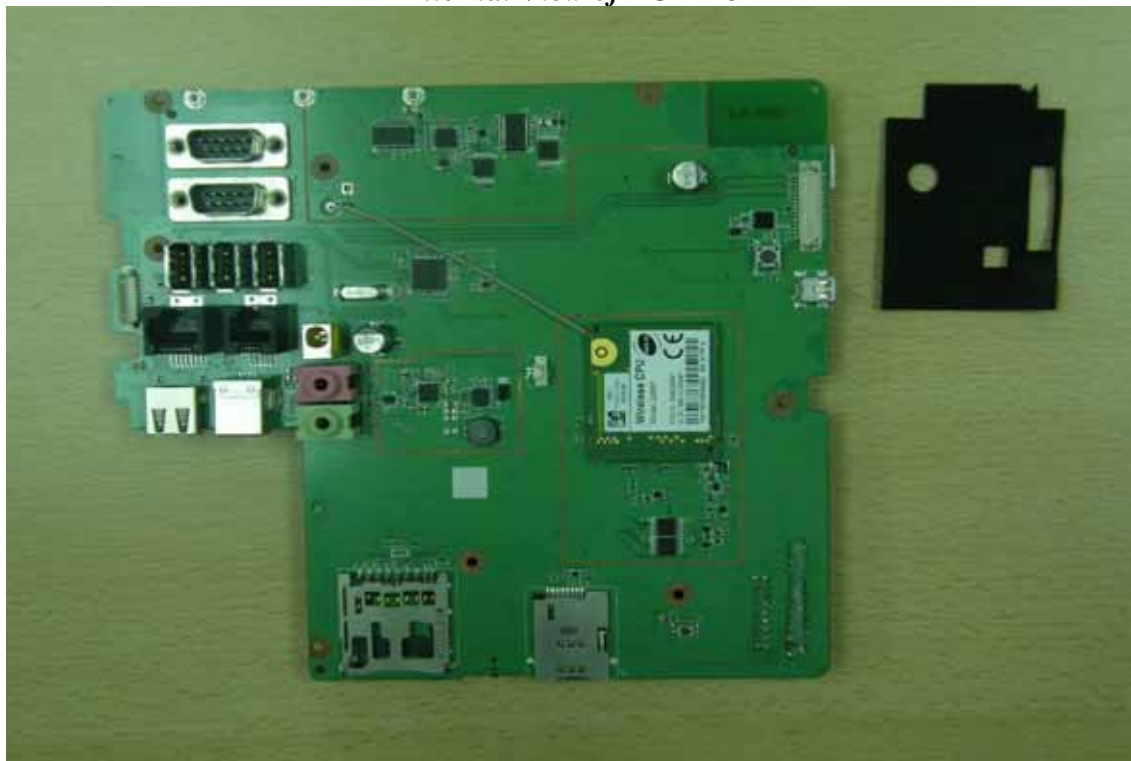
Internal View of EUT – 5



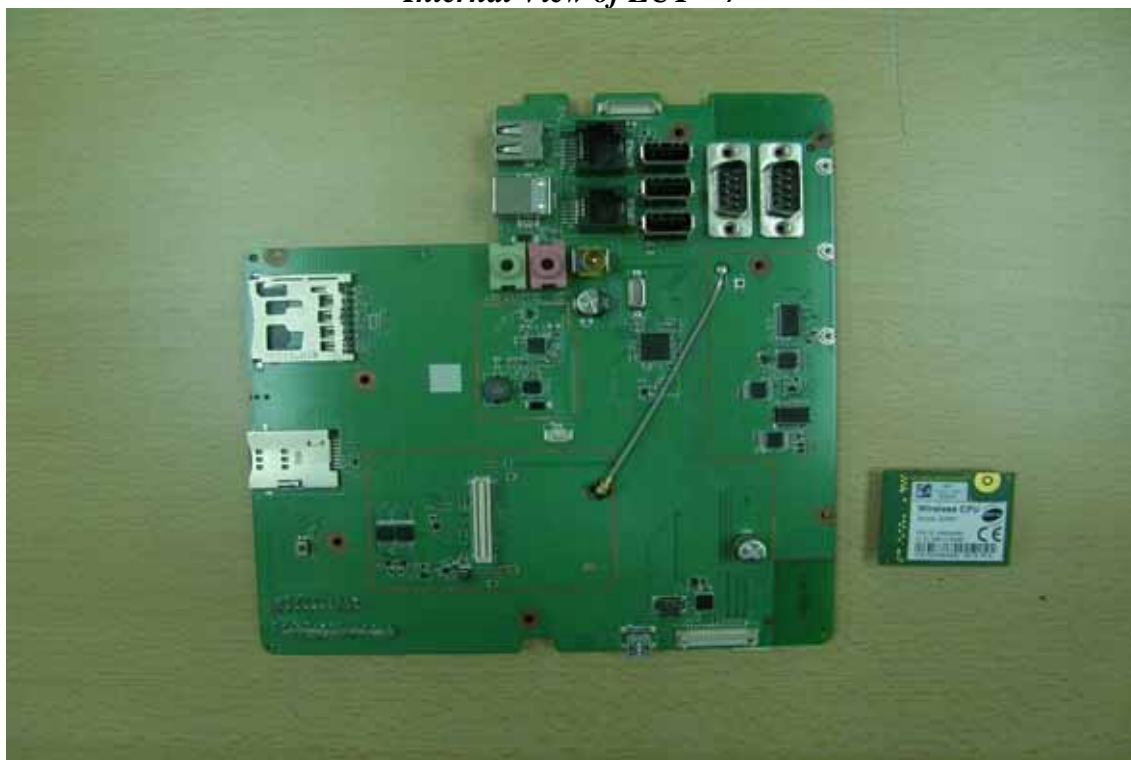
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Internal View of EUT – 6



Internal View of EUT – 7



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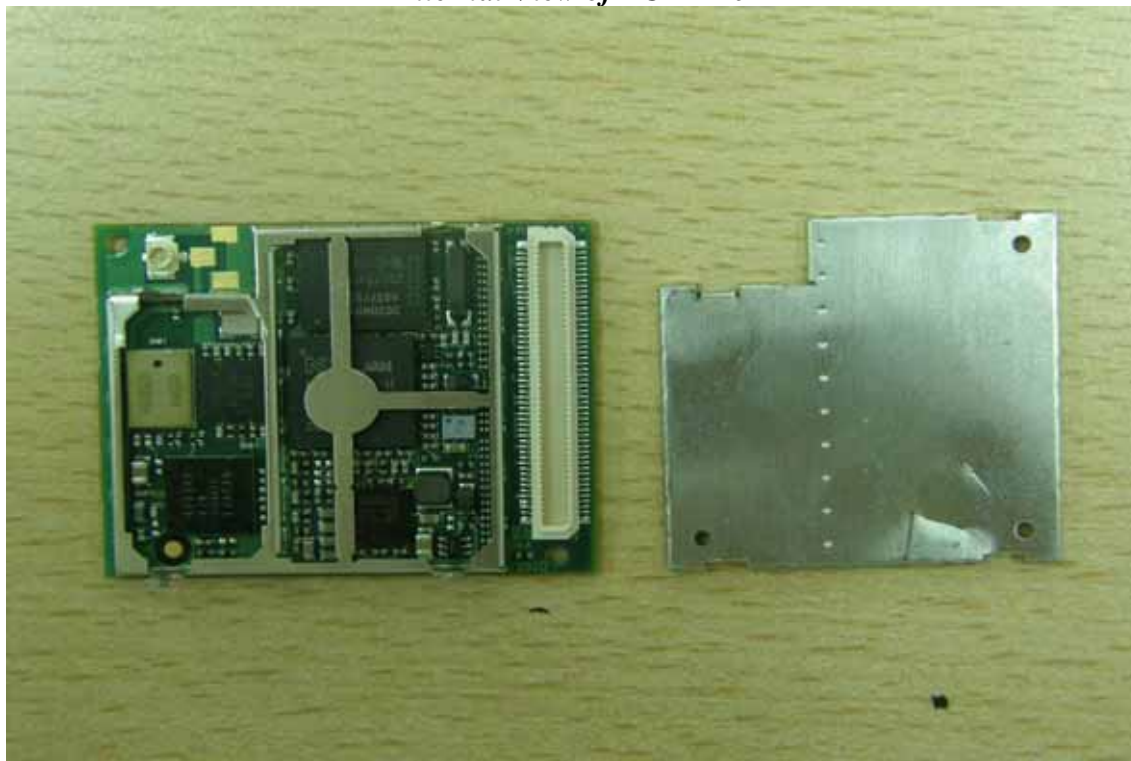
Internal View of EUT – 8



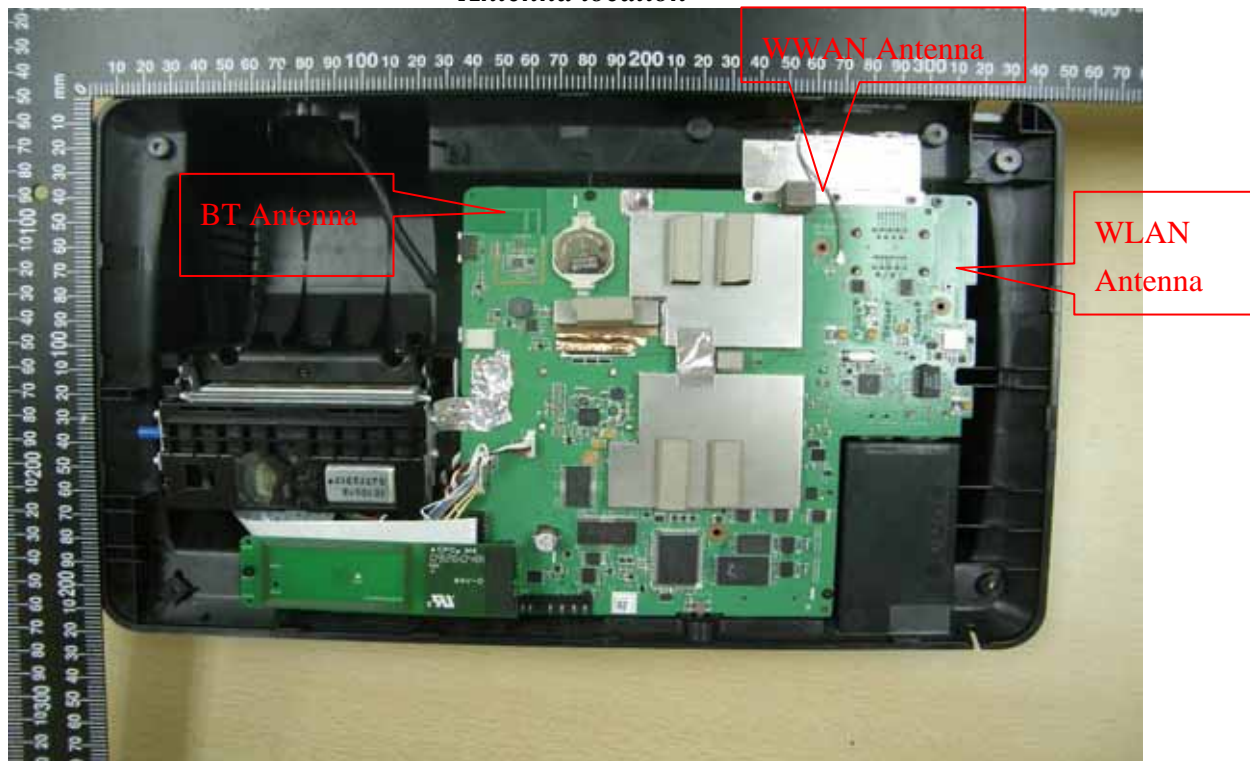
Internal View of EUT – 9



Internal View of EUT – 10



Antenna location



- End of Report -

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