

Complex Systems Pte Ltd

Wireless-A/B/G/N Network Mini PCIe Adapter

Model: WLE200NX

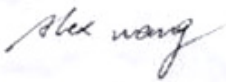
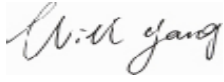
November 11, 2010
Report No.: 08U11572-8B

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

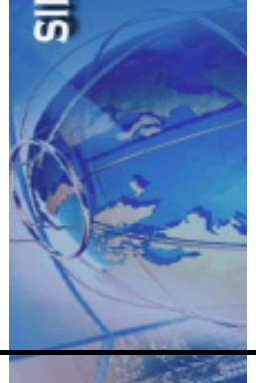
	
Alex Wang Test Engineer	Will Yang Technical Manager

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Test result presented in this test report is applicable to the representative sample only.

R&TTE Test Report

T0: EN 50385:2002

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2 Executive Summary & EUT information

The purpose of this test program was to demonstrate compliance of the Compex Systems Pte Ltd Wireless-A/B/G/N Network Mini PCIe Adapter, against the current Stipulated Standards. The Wireless-A/B/G/N Network Mini PCIe Adapter has demonstrated compliance with EN 50385 : 2002.

EUT Information

EUT Description	Please see attachment
Model No	WLE200NX
Serial No	N/A
Input Power	DC 3.3V
Classification Per Stipulated Test Standard	Mobile Device

3 TECHNICAL DETAILS

Purpose	Compliance testing of WIFI Module with stipulated standards
Applicant / Client	Compex Systems Pte Ltd 135 Joo Seng Road, #08-01 PM Industrial Building Singapore 368363
Manufacturer	Compex Systems Pte Ltd 135 Joo Seng Road, #08-01 PM Industrial Building Singapore 368363
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com
Test report reference number	08U11572-8B
Date EUT received	September 09, 2010
Standard applied	EN 50385 : 2002
Dates of test (from – to)	September 09, 2010 to November 08, 2010
No of Units	#1
Trade Name	COMPEX
Microprocessor (s)	unidentified
Clock/Oscillator Frequency (ies)	N/A
Rated Input Power	DC 3.3V
Modulation :	DSSS/OFDM



4 MODIFICATION

None

5 TEST SUMMARY

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

Mobile Device

Test Results Summary

Emissions			
Test Standard	Description	Product Class	Pass / Fail
EN 50385: 2002	RF Exposure	See above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.

6 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

LIMITS

The following Reference level for electric, magnetic, and /or electromagnetic fields as applicable, are excerpted from Council Recommendation 1999/519/EC:

Frequency Range	Equivalent plane wave power density (W/m ²)
400 - 2000 MHz	Frequency / 200

For radio equipment operating in the cellular phone bands, the lowest power density limit for each band is calculated as 880 MHz / 200 = 4.4 W/m² and 1710 MHz / 200 = 8.55 W/m².

Frequency Range	E-field Strength
2 – 300 GHz	61 V/m

RESULTS

As a mobile or fixed location transmitter, the minimum separation distance is specified as 20 cm.

The power level is the highest conducted power in each band and mode.

With 3.62dBi antenna gain

Mode	Band (GHz)	Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	E-field (V/m)	Limit (V/m)
802.11b	2412 - 2472	20.0	15.86	3.62	8.16	61.0
802.11g	2412 - 2472	20.0	15.98	3.62	8.27	61.0
802.11n HT20	2412 - 2472	20.0	15.98	3.62	8.27	61.0
802.11n HT40	2422 - 2462	20.0	16.03	3.62	8.32	61.0

With 4.63dBi antenna gain

Mode	Band (GHz)	Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	E-field (V/m)	Limit (V/m)
802.11a	5180 - 5240	20.0	17.74	4.63	11.38	61.0
802.11n HT20	5180 - 5240	20.0	17.74	4.63	11.38	61.0
802.11n HT40	5190 - 5230	20.0	18.06	4.63	11.80	61.0

With 5.56dBi antenna gain

Mode	Band (GHz)	Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	E-field (V/m)	Limit (V/m)
802.11a	5260 - 5320	20.0	16.70	5.56	11.23	61.0
802.11n HT20	5260 - 5320	20.0	16.70	5.56	11.23	61.0
802.11n HT40	5270 - 5310	20.0	17.07	5.56	11.72	61.0

With 5.34dBi antenna gain

Mode	Band (GHz)	Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	E-field (V/m)	Limit (V/m)
802.11a	5500 - 5700	20.0	17.03	5.34	11.38	61.0
802.11n HT20	5500 - 5700	20.0	17.03	5.34	11.38	61.0
802.11n HT40	5510 - 5670	20.0	16.93	5.34	11.25	61.0

END OF REPORT