

RADIO TEST REPORT

EN300 328 V1.6.1 (11-2004)

Product: **Compex Wireless-G Network Mini-PCI Adapter**
Applicant: **Compex Inc.**
Trade Name.....: **Compex**
Model: **iWavePort WLM54G1A / iWavePort WLM54G1B**
Sample Received Date: **04/07/2005**
Report No.: **MLT0504EMC011-01**

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Test By

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I. General of EUT

1.1 Identification of EUT

Equipment : Compex Wireless-G Network Mini-PCI Adapter

Applicant : Compex Inc.
840 Columbia Street, Suite B, Brea,
CA92821, USA

Manufacturer : Compex Inc.
840 Columbia Street, Suite B, Brea,
CA92821, USA

Model No : iWavePort WLM54G1A / iWavePort WLM54G1B

1.2 Technical data of EUT

Type of Modulation : Direct Sequence Spread Spectrum

Type of Antenna : 1/4 DIOPLE Antenna

Antenna Gain (dBi) : 2.0dBi

Frequency of Channel : 13CH

Operating Frequency : 2412MHz~2472MHz

Output Power : 13dBm

Input Rating : Powered By PC (Notebook)

1.3 Standard Test Conditions

Temperature : +22°C ~ +28 *Degrees Celsius*

Relative Humidity : 60% ~ 85%

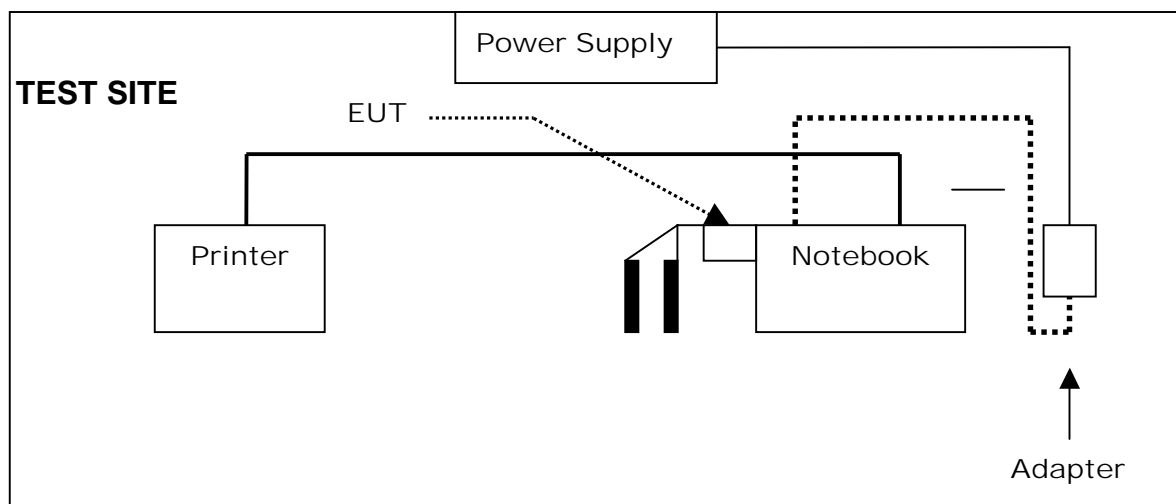
Supply Voltage : 230VAC

1.4 Configuration of EUT

This Compex Wireless-G Network Mini-PCI Adapter of

Item	Component	Manufacturer	Model
1.	Computer	Compaq	17XL360
2.	Printer	PANASONIC	KX-P1080I
3.	Monitor	IBM	10L6145 030

1.5 Configuration of System Under Test



During testing the EUT(Wireless Adapter) 's Mini PCI interface via a PCMCIA to mini-PCI extender connected to the Notebook, and the printer connected to Notebook' printer port.

1.6 Difference Description

(Model No.: iWavePort WLM54G 1A & iWavePort WLM54G 1B)

1. The circuit & Layout for these two models are identical.
2. Only main chip (U1) is different , the other components are identical.
3. The iWavePort WLM54G 1A supports 802.11B & 802.11G.
4. The iWavePort WLM54G 1B supports 802.11B & 802.11G & Super G.

II. Summary Of Tests

ETSI EN 300 328 (07-2000)			
Reference	Description/Transmitter	Results	Note
7.2.1	Effective Isotropically RF Power	PASS	
7.2.2	Peak Power Density (DSSS Equipment / Radiated)	N/A	
7.2.2	Peak Power Density (DSSS Equipment / Conducted)	PASS	
7.2.2	Peak Power Density (FHSS Equipment / Radiated)	N/A	
7.2.2	Peak Power Density (FHSS Equipment / Conducted)	N/A	
7.2.3	Frequency range of equipment using FHSS modulation	N/A	
7.2.4	Frequency range of equipment using other forms of modulation	PASS	
7.2.5	Spurious Emissions (Transmitter Operating / Radiated)	PASS	
7.2.5	Spurious Emissions (Transmitter Operating / Conducted)	N/A	
7.2.5	Spurious Emissions (Transmitter Standby / Radiated)	PASS	The transmitter on standby mode is equal to that of receiving mode. (1)
7.2.5	Spurious Emissions (Transmitter Standby / Conducted)	N/A	
Reference	Description/Receiver	Results	Note
9.1	Spurious Radiations / Radiated	PASS	(1)
9.1	Spurious Radiations / Conducted	N/A	

Note: (1) The EUT has two model numbers, the testing report only record the worst case (iWavePort WLM54G 1B).

(2) The iWavePort WLM54G 1A(CH01/CH06/CH11) & iWavePort WLM54G 1B(CH01/CH06/CH11) have been pretested.

For under 1GHz's Radiated Emissions, the testing report only record the worst cases which are WLM54G 1B(802.11B 's CH01) &WLM54G 1B(802.11 SuperG).

(3) The EUT has two model numbers, the testing report only record the worst case (iWavePort WLM54G 1A's802.11g CH01)& (iWavePort WLM54G 1B's Super g CH06)

Test Center: Max Light Technology Co., Ltd.

Remark : The test results only relate to the submitted test sample specified above.



III. Transmitter E.I.R.P (Clause 7.2.1)

3.1 Test Condition

Ambient Temperature.....: +25 Degrees Celsius
Relative Humidity.....: 62%

3.2 Limits of Effective Radiated Power (Clause 5.2.1)

Condition	Limits (dBm/dBW)	
	Peak	Average
Under all test conditions	23dBm/-7dBW	20dBm/-10dBW

The effective radiated power is defined as the total power of the transmitter and is calculated according to the procedure given in subclause 7.2.1. The effective radiated power shall be equal to or less than -10 dBW (100 mW) e.i.r.p. This limit shall apply for any combination of power level and intended antenna assembly.

3.3 Test Equipment List:

- A. HP 435A Power Metter
- B. HP 8481A Power Sensor
- C. Giant Force GT-150 Temperature Chamber
- D. HP CW Signal Generator

3.4 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b (CH01/CH07/CH10/CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Power (dBm)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Tnom=+21°C	Vnom=230V	PK: 12.1dBm	PK: 11.1dBm	PK: 10.6dBm	PK: 10.6dBm
		AV: 10.9dBm	AV: 9.8dBm	AV: 8.9dBm	AV: 9.0dBm
Tnom=0°C	Vnom=207V	PK: 12.2dBm	PK: 11.2dBm	PK: 10.9dBm	PK: 10.5dBm
		AV: 10.7dBm	AV: 9.9dBm	AV: 9.0dBm	AV: 8.7dBm
	Vnom=253V	PK: 12.0dBm	PK: 11.0dBm	PK: 10.7dBm	PK: 10.6dBm
		AV: 10.9dBm	AV: 9.9dBm	AV: 8.8dBm	AV: 8.8dBm
Tnom=+55°C	Vnom=207V	PK: 12.1dBm	PK: 11.2dBm	PK: 10.7dBm	PK: 10.7dBm
		AV: 11.0dBm	AV: 10.0dBm	AV: 8.9dBm	AV: 8.6dBm
	Vnom=253V	PK: 12.2dBm	PK: 11.1dBm	PK: 10.6dBm	PK: 10.5dBm
		AV: 10.8dBm	AV: 9.8dBm	AV: 8.7dBm	AV: 8.4dBm
Measurement Uncertainty		-1.24dB / +1.20dB			

Notes : 1.AV is the average power and defined in clause 7.2.1.
 2.PK is the peak power as defined in clause 7.2.1, increased with declared antenna gain (C+G).

3.5 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11g (CH01/CH07/CH10/CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Power (dBm)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Tnom=+21°C	Vnom=230V	PK: 8.33dBm	PK: 8.01dBm	PK: 7.61dBm	PK: 7.55dBm
		AV: 6.88dBm	AV: 6.75dBm	AV: 6.34dBm	AV: 6.11dBm
Tnom=0°C	Vnom=207V	PK: 8.38dBm	PK: 8.06dBm	PK: 7.77dBm	PK: 7.58dBm
		AV: 6.96dBm	AV: 6.80dBm	AV: 6.30dBm	AV: 6.20dBm
	Vnom=253V	PK: 8.26dBm	PK: 8.14dBm	PK: 7.68dBm	PK: 7.64dBm
		AV: 6.84dBm	AV: 6.69dBm	AV: 6.25dBm	AV: 6.17dBm
Tnom=+55°C	Vnom=207V	PK: 8.20dBm	PK: 8.20dBm	PK: 7.70dBm	PK: 7.56dBm
		AV: 6.78dBm	AV: 6.71dBm	AV: 6.12dBm	AV: 6.13dBm
	Vnom=253V	PK: 8.44dBm	PK: 8.04dBm	PK: 7.64dBm	PK: 7.43dBm
		AV: 6.92dBm	AV: 6.80dBm	AV: 6.02dBm	AV: 6.00dBm
Measurement Uncertainty		-1.24dB / +1.20dB			

Notes : 1.AV is the average power and defined in clause 7.2.1.
 2.PK is the peak power as defined in clause 7.2.1, increased with declared antenna gain (C+G).



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3.6 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b (CH01/CH07/CH10/CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Power (dBm)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Tnom=+21°C	Vnom=230V	PK: 12.6dBm	PK: 12.2dBm	PK: 12.1dBm	PK: 11.9dBm
		AV: 10.8dBm	AV: 10.7dBm	AV: 10.6dBm	AV: 10.4dBm
Tnom=0°C	Vnom=207V	PK: 12.4dBm	PK: 12.0dBm	PK: 12.0dBm	PK: 11.8dBm
		AV: 10.9dBm	AV: 10.6dBm	AV: 10.5dBm	AV: 10.2dBm
	Vnom=253V	PK: 12.5dBm	PK: 12.1dBm	PK: 12.2dBm	PK: 11.9dBm
		AV: 10.8dBm	AV: 10.9dBm	AV: 10.8dBm	AV: 10.6dBm
Tnom=+55°C	Vnom=207V	PK: 12.6dBm	PK: 12.3dBm	PK: 12.0dBm	PK: 12.1dBm
		AV: 11.1dBm	AV: 10.7dBm	AV: 10.6dBm	AV: 10.9dBm
	Vnom=253V	PK: 12.4dBm	PK: 12.0dBm	PK: 12.1dBm	PK: 12.0dBm
		AV: 11.0dBm	AV: 10.8dBm	AV: 10.5dBm	AV: 11.0dBm
Measurement Uncertainty		-1.24dB / +1.20dB			

Notes : 1.AV is the average power and defined in clause 7.2.1.
 2.PK is the peak power as defined in clause 7.2.1, increased with declared antenna gain (C+G).

3.7 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11g (CH01/CH07/CH10/CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Power (dBm)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Tnom=+21°C	Vnom=230V	PK: 8.38dBm	PK: 8.10dBm	PK: 7.96dBm	PK: 7.70dBm
		AV: 7.23dBm	AV: 6.87dBm	AV: 6.73dBm	AV: 6.42dBm
Tnom=0°C	Vnom=207V	PK: 8.42dBm	PK: 8.18dBm	PK: 7.87dBm	PK: 7.49dBm
		AV: 7.09dBm	AV: 6.94dBm	AV: 6.65dBm	AV: 6.34dBm
	Vnom=253V	PK: 8.31dBm	PK: 8.07dBm	PK: 7.99dBm	PK: 7.50dBm
		AV: 6.92dBm	AV: 6.87dBm	AV: 6.80dBm	AV: 6.39dBm
Tnom=+55°C	Vnom=207V	PK: 8.45dBm	PK: 8.23dBm	PK: 7.91dBm	PK: 7.44dBm
		AV: 7.15dBm	AV: 7.09dBm	AV: 6.73dBm	AV: 6.57dBm
	Vnom=253V	PK: 8.50dBm	PK: 8.03dBm	PK: 7.78dBm	PK: 7.38dBm
		AV: 7.03dBm	AV: 6.83dBm	AV: 6.66dBm	AV: 6.46dBm
Measurement Uncertainty		-1.24dB / +1.20dB			

Notes : 1.AV is the average power and defined in clause 7.2.1.
 2.PK is the peak power as defined in clause 7.2.1, increased with declared antenna gain (C+G).

3.8 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11 Super G (CH06)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Power (dBm)
Bitrate 11.0 Mbit/s		CH06
Tnom=+21°C	Vnom=230V	PK:12.0dBm
		AV:10.5dBm
Tnom=0°C	Vnom=207V	PK:12.2dBm
		AV:10.6dBm
	Vnom=253V	PK:12.0dBm
		AV:10.6dBm
Tnom=+55°C	Vnom=207V	PK:12.1dBm
		AV:10.7dBm
	Vnom=253V	PK:12.2dBm
		AV:10.5dBm
Measurement Uncertainty		-1.24dB / +1.20dB

Notes : 1.AV is the average power and defined in clause 7.2.1.
 2.PK is the peak power as defined in clause 7.2.1, increased with declared antenna gain (C+G).



IV. Transmitter Peak Power Density (Clause 7.2.2) DSSS and Other Types of Modulation

4.1 Test Condition

Ambient Temperature.....: +26 Degrees Celsius
Relative Humidity.....: 65%

4.2 Limits of Transmitter Peak Power Density (Clause 5.2.2)

Condition	Limits (dBm/dBW)	
	DSSS Modulation	FHSS Modulation
Under all test conditions	10dBm/1MHz	20dBm/100KHz

The peak power density is defined as the highest instantaneous level of power in Watts per Hertz generated by the transmitter within the power envelope. For equipment using FHSS modulation, the power density shall be limited to-10 dBW (100 mW) per 100 kHz e.i.r.p. For equipment using other types of modulation, the peak power shall be limited to-20dBW(10mW)perMHz e.i.r.p.

4.3 Test Equipment List:

- A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer
- B. HP 8449B Pre Amplifier
- C. SCHWARZBECK BBHA 9120D Biconilog Antenna
- D. SCHWARZBECK BBHA 9170 Biconilog Antenna



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4.4 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b (CH01 / CH07 / CH10 / CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Peak Power Density (dBm/1MHz)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Limit	10dBm/1MHz	7.39dBm/MHz	6.03dBm/MHz	5.61dBm/MHz	5.44dBm/MHz
Measurement Uncertainty		-1.15dB / +1.35dB			



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4.5 Test Results

Applicant : Compex Inc.
Model No : iWavePort WLM54G1A
EUT : Compex Wireless-G Network Mini-PCI Adapter
Test Mode : 802.11g (CH01 / CH07 / CH10 / CH13)
Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Peak Power Density (dBm/1MHz)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Limit	10dBm/1MHz	4.44dBm/MHz	3.86dBm/MHz	3.25dBm/MHz	3.64dBm/MHz
Measurement Uncertainty		-1.15dB / +1.35dB			



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4.6 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b (CH01 / CH07 / CH10 / CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Peak Power Density (dBm/1MHz)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Limit	10dBm/1MHz	7.28dBm/MHz	6.19dBm/MHz	5.82dBm/MHz	5.47dBm/MHz
Measurement Uncertainty		-1.15dB / +1.35dB			



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4.5 Test Results

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11g (CH01 / CH07 / CH10 / CH13)
 Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Peak Power Density (dBm/1MHz)			
Bitrate 11.0 Mbit/s		CH01	CH07	CH10	CH13
Limit	10dBm/1MHz	4.47dBm/MHz	3.53dBm/MHz	3.44dBm/MHz	3.14dBm/MHz
Measurement Uncertainty		-1.15dB / +1.35dB			



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4.5 Test Results

Applicant : Compex Inc.
Model No : iWavePort WLM54G1B
EUT : Compex Wireless-G Network Mini-PCI Adapter
Test Mode : 802.11 Super G (CH06)
Duty Cycle : X=1.0 (See Clause 7.2.1 Step1)

Test Conditions		Transmitter Peak Power Density (dBm/1MHz)
Bitrate 11.0 Mbit/s		CH06
Limit	10dBm/1MHz	4.44dBm/MHz
Measurement Uncertainty		-1.15dB / +1.35dB

V. Transmitter Frequency Range (Clause 7.2.4) DSSS and Other Types of Modulation

5.1 Test Condition

Ambient Temperature.....: +26 Degrees Celsius
Relative Humidity.....: 67%

5.2 Limits of Transmitter Frequency Range (Clause 5.2.3)

Condition	Limits (MHz)	
	EU	France
Under all test conditions	$F_L \geq 2400.0 \text{ MHz}$ $F_H \geq 2483.5 \text{ MHz}$	$F_L \geq 2446.5 \text{ MHz}$ $F_H \geq 2483.5 \text{ MHz}$

The frequency range of the equipment is determined by the lowest and highest frequencies occupied by the power envelope. F_H is the highest frequency of the power envelope: it is the frequency furthest above the frequency of maximum power where the output power drops below the level of -80 dBm/Hz e.i.r.p. spectral power density (-30 dBm if measured in a 100 kHz bandwidth). F_L is the lowest frequency of the power envelope; it is the frequency furthest below the frequency of maximum power where the output power drops below the level equivalent to -80 dBm/Hz e.i.r.p. spectral power density (or -30 dBm if measured in a 100 kHz bandwidth). For a given operating frequency, the width of the power envelope is ($f_H - f_L$). In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allocated band. The frequency range is determined by the lowest value of f_L and the highest value of f_H resulting from the adjustment of the equipment to the lowest and highest operating frequencies. For all equipment the frequency range shall lie within the band 2.4 GHz to 2.4835 GHz.

5.3 Test Equipment List:

- A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer
- B. HP 8449B Pre Amplifier
- C. SCHWARZBECK BBHA 9120D Biconilog Antenna
- D. SCHWARZBECK BBHA 9170 Biconilog Antenna

5.4 Test Results (For Other EU Countries & France)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b {CH01~CH11 (For EU) / CH10~CH13 (For France)}

Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH01~CH13 (For EU)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2402.10MHz	2482.00MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2402.08MHz	2482.12MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2402.16MHz	2482.08MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2402.02MHz	2482.18MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2402.12MHz	2482.16MHz	FL>=2400.0MHz FH>=2483.5MHz
Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH10~CH13 (For France)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2447.20MHz	2482.00MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2447.06MHz	2482.12MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2447.14MHz	2482.08MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2447.18MHz	2482.18MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2447.24MHz	2482.16MHz	FL>=2446.5MHz FH>=2483.5MHz
Measurement Uncertainty		+-100KHz@fo=2400MHz		

5.5 Test Results (For Other EU Countries & France)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11g {CH01~CH11 (For EU) / CH10~CH13 (For France)}

Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH01~CH13 (For EU)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2401.50MHz	2482.50MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2401.58MHz	2482.38MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.44MHz	2482.46MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2401.40MHz	2482.42MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.52MHz	2482.36MHz	FL>=2400.0MHz FH>=2483.5MHz
Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH10~CH13 (For France)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2446.90MHz	2482.50MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2446.80MHz	2482.38MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.84MHz	2482.46MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2446.92MHz	2482.42MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.78MHz	2482.36MHz	FL>=2446.5MHz FH>=2483.5MHz
Measurement Uncertainty		+-100KHz@fo=2400MHz		

5.6 Test Results (For Other EU Countries & France)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11b {CH01~CH11 (For EU) / CH10~CH13 (For France)}

Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH01~CH13 (For EU)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2401.50MHz	2482.40MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2401.49MHz	2482.34MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.61MHz	2482.29MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2401.57MHz	2482.43MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.63MHz	2482.48MHz	FL>=2400.0MHz FH>=2483.5MHz
Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH10~CH13 (For France)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2446.70MHz	2482.40MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2446.61MHz	2482.34MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.64MHz	2482.29MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2446.74MHz	2482.43MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.60MHz	2482.48MHz	FL>=2446.5MHz FH>=2483.5MHz
Measurement Uncertainty		+-100KHz@fo=2400MHz		

5.7 Test Results (For Other EU Countries & France)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11g {CH01~CH11 (For EU) / CH10~CH13 (For France)}

Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH01~CH13 (For EU)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2401.40MHz	2482.20MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2401.53MHz	2482.12MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.34MHz	2482.30MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2401.44MHz	2482.24MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2401.58MHz	2482.43MHz	FL>=2400.0MHz FH>=2483.5MHz
Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH10~CH13 (For France)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2446.60MHz	2482.20MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2446.48MHz	2482.12MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.56MHz	2482.30MHz	FL>=2446.5MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2446.68MHz	2482.24MHz	FL>=2446.5MHz FH>=2483.5MHz
	Vnom=253V	2446.64MHz	2482.43MHz	FL>=2446.5MHz FH>=2483.5MHz
Measurement Uncertainty		+-100KHz@fo=2400MHz		

5.8 Test Results (For Other EU Countries & France)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : 802.11 Super G (CH06)

Test Conditions		Frequency (MHz) at which -80dBm/Hz occurs		
CH01 ~CH13 (For EU)		Lowest	Highest	Limit (MHz)
Tnom=+21°C	Vnom=230V	2416.60MHz	2458.20MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=0°C	Vnom=207V	2416.48MHz	2458.29MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2416.55MHz	2458.14MHz	FL>=2400.0MHz FH>=2483.5MHz
Tnom=+55°C	Vnom=207V	2416.62MHz	2458.26MHz	FL>=2400.0MHz FH>=2483.5MHz
	Vnom=253V	2416.58MHz	2458.10MHz	FL>=2400.0MHz FH>=2483.5MHz



VI. Transmitter Spurious Emissions (Clause 7.2.5)

6.1 Test Condition

Ambient Temperature.....: +25 Degrees Celsius

Relative Humidity.....: 65%

6.2 Transmitter Limits for Spurious Emissions (Clause 5.2.4)

Narrowband Spurious Emissions

Frequency Range	Limits (dBm)	
	Operating Limit	Standby Limit
30MHz to 1GHz	-36dBm	-57dBm
Above 1GHz to 12.75GHz	-30dBm	-47dBm
1.8GHz to 1.9GHz,5.15GHz to 5.3GHz	-47dBm	-47dBm

Wideband Spurious Emissions

Frequency Range	Limits (dBm/Hz)	
	Operating Limit	Standby Limit
30MHz to 1GHz	-86dBm/Hz	-107dBm/Hz
Above 1GHz to 12.75GHz	-80dBm/Hz	-97dBm/Hz
1.8GHz to 1.9GHz,5.15GHz to 5.3GHz	-97dBm/Hz	-97dBm/Hz

6.3 Test Equipment List:

- A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer
- B. HP 8449B Pre Amplifier
- C. HP 84300-80038 High Pass Filter
- D. HP 84300-80039 High Pass Filter
- E. SCHWARZBECK BBHA 9120D Biconilog Antenna
- F. SCHWARZBECK BBHA 9170 Biconilog Antenna

6.4 Test Results (Radiated)

6.4.1 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH01 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
87.40	-56.38	-36	-20.38
421.59	-54.22	-36	-18.22
700.58	-55.01	-36	-19.01
1496.00	-53.66	-30	-23.66
1878.00	-48.75	-30	-18.75
4823.50	-45.27	-30	-15.27
7238.25	-42.07	-30	-12.07
9650.00	-41.88	-30	-11.88
12075.25	-44.06	-30	-14.06
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
87.27	-58.22	-36	-22.22
422.02	-54.06	-36	-18.06
700.69	-53.61	-36	-17.61
1496.00	-54.97	-30	-24.97
1878.00	-52.50	-30	-22.50
4823.50	-48.87	-30	-18.87
7238.25	-41.07	-30	-11.07
9650.00	-43.66	-30	-13.66
12075.25	-44.19	-30	-14.19
Measurement Uncertainty		+2.41dB/-1.85dB	

6.4.2 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH07 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.39	-57.44	-36	-21.44
423.07	-56.91	-36	-20.91
701.27	-54.37	-36	-18.37
1496.00	-55.08	-30	-25.08
1878.00	-48.11	-30	-18.11
4886.00	-47.32	-30	-17.32
7337.25	-40.87	-30	-10.87
9752.50	-42.63	-30	-12.63
12203.50	-44.62	-30	-14.62
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.87	-56.77	-36	-20.77
422.99	-55.08	-36	-19.08
700.98	-53.95	-36	-17.95
1496.00	-54.07	-30	-24.07
1878.00	-47.44	-30	-17.44
4886.00	-45.31	-30	-15.31
7337.25	-42.07	-30	-12.07
9752.50	-42.77	-30	-12.77
12203.50	-43.94	-30	-13.94
Measurement Uncertainty		+2.41dB/-1.85dB	



6.4.3 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH10 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.76	-59.98	-36	-23.98
421.58	-55.64	-36	-19.64
701.02	-53.55	-36	-17.55
1496.00	-54.18	-30	-24.18
1878.00	-50.23	-30	-20.23
4913.75	-45.27	-30	-15.27
7374.50	-42.22	-30	-12.22
9826.25	-43.62	-30	-13.62
12285.75	-44.55	-30	-14.55
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.69	-58.22	-36	-22.22
421.41	-54.13	-36	-18.13
700.87	-55.32	-36	-19.32
1496.00	-52.69	-30	-22.69
1878.00	-51.72	-30	-21.72
4913.75	-45.22	-30	-15.22
7374.50	-40.25	-30	-10.25
9826.25	-42.75	-30	-12.75
12285.75	-40.83	-30	-10.83
Measurement Uncertainty		+2.41dB/-1.85dB	



6.4.4 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH13 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.43	-56.94	-36	-20.94
422.01	-53.28	-36	-17.28
701.06	-55.07	-36	-19.07
1496.00	-52.54	-30	-22.54
1878.00	-46.44	-30	-16.44
4953.50	-47.82	-30	-17.82
7423.75	-43.95	-30	-13.95
9892.25	-44.55	-30	-14.55
12362.00	-46.08	-30	-16.08
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.76	-57.28	-36	-21.28
422.84	-54.33	-36	-18.33
701.29	-51.53	-36	-15.53
1496.00	-52.98	-30	-22.98
1878.00	-55.33	-30	-25.33
4953.50	-49.86	-30	-19.86
7423.75	-47.64	-30	-17.64
9892.25	-45.88	-30	-15.88
12362.00	-46.37	-30	-16.37
Measurement Uncertainty		+2.41dB/-1.85dB	



6.4.5 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH01 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.29	-58.66	-36	-22.66
420.73	-54.98	-36	-18.98
699.87	-55.71	-36	-19.71
1496.00	-54.66	-30	-24.66
1878.00	-49.76	-30	-19.76
4821.25	-48.37	-30	-18.37
7235.50	-44.57	-30	-14.57
9650.75	-45.28	-30	-15.28
12075.25	-43.99	-30	-13.99
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.53	-57.44	-36	-21.44
420.44	-51.53	-36	-15.53
699.28	-55.23	-36	-19.23
1496.00	-52.69	-30	-22.69
1878.00	-53.34	-30	-23.34
4821.25	-50.24	-30	-20.24
7235.50	-45.77	-30	-15.77
9650.75	-42.74	-30	-12.74
12075.25	-44.66	-30	-14.66
Measurement Uncertainty		+2.41dB/-1.85dB	



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6.4.6 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH07 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.99	-56.38	-36	-20.38
421.03	-58.27	-36	-22.27
699.57	-52.44	-36	-16.44
1496.00	-52.98	-30	-22.98
1878.00	-49.78	-30	-19.78
4886.75	-46.01	-30	-16.01
7337.25	-40.74	-30	-10.74
9754.25	-44.28	-30	-14.28
12205.50	-43.79	-30	-13.79
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.87	-59.53	-36	-23.53
421.16	-54.28	-36	-18.28
699.64	-54.15	-36	-18.15
1496.00	-53.76	-30	-23.76
1878.00	-52.44	-30	-22.44
4886.75	-49.52	-30	-19.52
7337.25	-45.27	-30	-15.27
9754.25	-44.80	-30	-14.80
12205.50	-42.79	-30	-12.79
Measurement Uncertainty		+2.41dB/-1.85dB	



6.4.7 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH10 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.01	-57.22	-36	-21.22
420.88	-56.91	-36	-20.91
698.97	-53.23	-36	-17.23
1496.00	-54.05	-30	-24.05
1878.00	-50.22	-30	-20.22
4916.50	-47.54	-30	-17.54
7377.50	-45.28	-30	-15.28
9825.25	-44.91	-30	-14.91
12286.00	-45.37	-30	-15.37
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
86.12	-55.28	-36	-19.28
420.95	-56.30	-36	-20.30
698.76	-54.27	-36	-18.27
1496.00	-55.55	-30	-25.55
1878.00	-50.92	-30	-20.92
4916.50	-48.75	-30	-18.75
7377.50	-44.29	-30	-14.29
9825.25	-43.60	-30	-13.60
12286.00	-44.15	-30	-14.15
Measurement Uncertainty		+2.41dB/-1.85dB	



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6.4.8 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH13 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.76	-57.44	-36	-21.44
420.68	-55.27	-36	-19.27
698.90	-56.94	-36	-20.94
1496.00	-54.77	-30	-24.77
1878.00	-53.81	-30	-23.81
4953.50	-49.62	-30	-19.62
7424.75	-45.27	-30	-15.27
9892.50	-42.41	-30	-12.41
12360.75	-41.73	-30	-11.73
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
85.81	-55.44	-36	-19.44
420.75	-53.74	-36	-17.74
698.84	-56.08	-36	-20.08
1496.00	-55.27	-30	-25.27
1878.00	-51.99	-30	-21.99
4953.50	-49.73	-30	-19.73
7424.75	-48.47	-30	-18.47
9892.50	-45.77	-30	-15.77
12360.75	-46.09	-30	-16.09
Measurement Uncertainty		+2.41dB/-1.85dB	

6.4.8 Measurement Data Of Spurious Emissions (Super G)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH06 (Operating)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
88.73	-56.95	-36	-20.95
425.77	-57.28	-36	-21.28
702.55	-55.33	-36	-19.33
1452.00	-55.42	-30	-25.42
1869.25	-49.05	-30	-19.05
4884.25	-45.66	-30	-15.66
7349.50	-42.73	-30	-12.73
9792.75	-44.21	-30	-14.21
12076.50	-43.72	-30	-13.72
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
88.59	-57.22	-36	-21.22
425.46	-55.47	-36	-19.47
702.51	-52.97	-36	-16.97
1452.00	-53.65	-30	-23.65
1869.25	-52.88	-30	-22.88
4884.25	-49.35	-30	-19.35
7349.50	-44.77	-30	-14.77
9792.75	-43.87	-30	-13.87
12076.50	-45.64	-30	-15.64
Measurement Uncertainty		+2.41dB/-1.85dB	



VII. Receiver Spurious Emissions (Clause 7.3.2)

7.1 Test Condition

Ambient Temperature.....: +26°C

Relative Humidity.....: 65%

7.2 Receiver Limits for Spurious Emissions (Clause 5.3.2)

Narrowband Spurious Emissions

Frequency Range	Limits (dBm)
30MHz to 1GHz	-57dBm
Above 1GHz to 12.75GHz	-47dBm

Wideband Spurious Emissions

Frequency Range	Limits (dBm/Hz)
30MHz to 1GHz	-107dBm/Hz
Above 1GHz to 12.75GHz	-97dBm/Hz

7.3 Test Equipment List:

- A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer
- B. HP 8449B Pre Amplifier
- C. HP 84300-80038 High Pass Filter
- D. HP 84300-80039 High Pass Filter
- E. SCHWARZBECK BBHA 9120D Biconilog Antenna
- F. SCHWARZBECK BBHA 9170 Biconilog Antenna



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7.4 Test Results (Radiated)

7.4.1 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH01 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.52	-68.96	-57	-11.96
124.77	-65.74	-57	-8.74
185.30	-66.88	-57	-9.88
560.88	-64.29	-57	-7.29
639.69	-65.21	-57	-8.21
708.59	-65.66	-57	-8.66
1490.25	-59.77	-47	-12.77
4516.75	-59.87	-47	-12.87
7275.25	-59.35	-47	-12.35
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.43	-65.88	-57	-8.88
124.53	-67.41	-57	-10.41
185.21	-66.93	-57	-9.93
560.74	-65.28	-57	-8.28
639.58	-64.33	-57	-7.33
708.62	-65.72	-57	-8.72
1490.25	-58.50	-47	-11.50
4516.75	-58.78	-47	-11.78
7275.25	-61.02	-47	-14.02
Measurement Uncertainty		+2.41dB/-1.85dB	



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7.4.2 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH07 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.40	-69.33	-57	-12.33
124.58	-64.25	-57	-7.25
185.19	-66.01	-57	-9.01
560.70	-65.27	-57	-8.27
639.69	-64.11	-57	-7.11
708.48	-65.64	-57	-8.64
1490.25	-59.58	-47	-12.58
4537.75	-58.22	-47	-11.22
7285.75	-55.73	-47	-8.73
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.32	-67.14	-57	-10.14
124.46	-65.88	-57	-8.88
185.34	-69.25	-57	-12.25
560.88	-64.63	-57	-7.63
639.89	-65.72	-57	-8.72
708.44	-65.22	-57	-8.22
1490.25	-59.36	-47	-12.36
4537.75	-58.74	-47	-11.74
7285.75	-58.15	-47	-11.15
Measurement Uncertainty		+2.41dB/-1.85dB	



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7.4.3 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH10 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.46	-67.58	-57	-10.58
124.58	-68.27	-57	-11.27
185.48	-66.07	-57	-9.07
560.76	-65.49	-57	-8.49
639.55	-64.55	-57	-7.55
708.79	-67.25	-57	-10.25
1490.25	-55.33	-47	-8.33
4547.50	-52.87	-47	-5.87
7292.25	-54.19	-47	-7.19
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.58	-67.22	-57	-10.22
124.62	-68.41	-57	-11.41
185.59	-64.53	-57	-7.53
560.80	-65.66	-57	-8.66
639.67	-66.79	-57	-9.79
708.83	-68.52	-57	-11.52
1490.25	-61.47	-47	-14.47
4547.50	-59.55	-47	-12.55
7292.25	-55.72	-47	-8.72
Measurement Uncertainty		+2.41dB/-1.85dB	



7.4.4 Measurement Data Of Spurious Emissions (802.11b)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH13 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.62	-66.82	-57	-9.82
124.78	-67.88	-57	-10.88
185.70	-64.96	-57	-7.96
560.87	-67.03	-57	-10.03
639.72	-67.48	-57	-10.48
708.90	-65.27	-57	-8.27
1490.25	-57.11	-47	-10.11
4553.75	-56.04	-47	-9.04
7304.75	-57.88	-47	-10.88
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.64	-67.22	-57	-10.22
124.83	-65.43	-57	-8.43
185.75	-63.78	-57	-6.78
560.82	-65.66	-57	-8.66
639.76	-64.79	-57	-7.79
708.94	-65.02	-57	-8.02
1490.25	-56.33	-47	-9.33
4553.75	-59.27	-47	-12.27
7304.75	-57.22	-47	-10.22
Measurement Uncertainty		+2.41dB/-1.85dB	

7.4.5 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH01 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.57	-67.22	-57	-10.22
124.71	-68.44	-57	-11.44
185.65	-67.24	-57	-10.24
560.73	-66.38	-57	-9.38
639.63	-65.05	-57	-8.05
708.79	-64.29	-57	-7.29
1490.25	-59.32	-47	-12.32
4514.25	-57.58	-47	-10.58
7272.00	-58.46	-47	-11.46
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.61	-67.58	-57	-10.58
124.67	-65.96	-57	-8.96
185.52	-65.75	-57	-8.75
560.59	-66.18	-57	-9.18
639.55	-65.38	-57	-8.38
708.67	-63.29	-57	-6.29
1490.25	-58.22	-47	-11.22
4514.25	-60.72	-47	-13.72
7272.00	-61.22	-47	-14.22
Measurement Uncertainty		+2.41dB/-1.85dB	



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7.4.6 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH07 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.79	-67.39	-57	-10.39
124.88	-65.83	-57	-8.83
185.74	-66.77	-57	-9.77
560.69	-64.39	-57	-7.39
639.82	-64.28	-57	-7.28
708.91	-65.72	-57	-8.72
1490.25	-59.88	-47	-12.88
4537.50	-57.05	-47	-10.05
7287.25	-56.36	-47	-9.36
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.74	-67.46	-57	-10.46
124.69	-65.88	-57	-8.88
185.73	-69.37	-57	-12.37
560.66	-66.84	-57	-9.84
639.85	-65.72	-57	-8.72
708.99	-64.68	-57	-7.68
1490.25	-58.77	-47	-11.77
4537.50	-57.29	-47	-10.29
7287.25	-56.81	-47	-9.81
Measurement Uncertainty		+2.41dB/-1.85dB	



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7.4.7 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH10 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.27	-68.52	-57	-11.52
124.19	-65.27	-57	-8.27
185.43	-65.93	-57	-8.93
560.27	-66.12	-57	-9.12
639.37	-64.32	-57	-7.32
708.62	-65.08	-57	-8.08
1490.25	-60.02	-47	-13.02
4548.50	-57.25	-47	-10.25
7291.75	-58.19	-47	-11.19
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.32	-67.05	-57	-10.05
124.25	-66.33	-57	-9.33
185.49	-66.92	-57	-9.92
560.38	-65.26	-57	-8.26
639.41	-66.82	-57	-9.82
708.53	-64.19	-57	-7.19
1490.25	-58.75	-47	-11.75
4548.50	-57.47	-47	-10.47
7291.75	-56.98	-47	-9.98
Measurement Uncertainty		+2.41dB/-1.85dB	



7.4.8 Measurement Data Of Spurious Emissions (802.11g)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH13 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.19	-66.39	-57	-9.39
124.20	-67.42	-57	-10.42
185.27	-65.82	-57	-8.82
560.25	-65.37	-57	-8.37
639.18	-64.92	-57	-7.92
708.46	-65.22	-57	-8.22
1490.25	-59.62	-47	-12.62
4557.25	-57.35	-47	-10.35
7308.00	-57.847	-47	-10.85
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
33.19	-66.55	-57	-9.55
124.20	-65.87	-57	-8.87
185.27	-66.39	-57	-9.39
560.25	-64.27	-57	-7.27
639.18	-65.89	-57	-8.89
708.46	-64.10	-57	-7.10
1490.25	-57.27	-47	-10.27
4557.25	-58.29	-47	-11.29
7308.00	-58.33	-47	-11.33
Measurement Uncertainty		+2.41dB/-1.85dB	



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7.4.8 Measurement Data Of Spurious Emissions (Super G)

Applicant : Compex Inc.
 Model No : iWavePort WLM54G1A / iWavePort WLM54G1B
 EUT : Compex Wireless-G Network Mini-PCI Adapter
 Test Mode : CH06 (Receiver)

Spurious Emissions (HORIZONTAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
40.38	-66.30	-57	-9.30
125.82	-65.29	-57	-8.29
190.45	-65.22	-57	-8.22
568.22	-64.15	-57	-7.15
645.78	-64.72	-57	-7.72
712.66	-65.21	-57	-8.21
1510.25	-56.28	-47	-9.28
4537.50	-59.33	-47	-12.33
7286.25	-57.98	-47	-10.98
Measurement Uncertainty		+2.41dB/-1.85dB	

Spurious Emissions (VERTICAL)			
Frequency (MHz)	Amplitude (dBm)	Limits (dBm)	Margin (dB)
40.78	-68.64	-57	-11.64
125.74	-66.09	-57	-9.09
190.43	-67.22	-57	-10.22
568.15	-66.36	-57	-9.36
645.69	-64.18	-57	-7.18
712.52	-65.08	-57	-8.08
1510.25	-58.25	-47	-11.25
4537.50	-57.43	-47	-10.43
7286.25	-57.98	-47	-10.98
Measurement Uncertainty		+2.41dB/-1.85dB	



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Appendix I- Block Diagram

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Appendix II- User Manual

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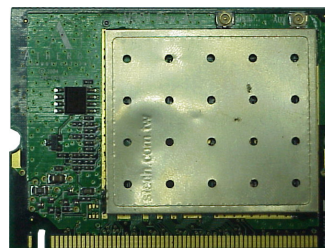
Compex Wireless Mini PCI Adapter

WLM54G

Version 1.1



Figure 1
Compex WLM54G



This mini PCI adapter, Compex WLM54G contains a dual-mode single chip MAC/BB/Radio for IEEE 802.11b/g Wireless LAN. Based on the latest industry standard Wi-Fi Certified IEEE 802.11g specification, the Compex WLM54G offers maximum channel speeds of up to 108 Mbps. The Compex WLM54G maintains interoperability within the 2.4 GHz frequency band, offering full compatibility with 802.11b networks. It supports key security features like Wi-Fi Protected Access (WPA), WPA2, WEP and 802.1x.

WLM54G has two variants in its family :

- **WLM54G 1A:** This mini PCI adapter's "G" chipset offers maximum channel speeds of up to 54Mbps
- **WLM54G 1B:** This mini PCI adapter's "Super-G" chipset offers maximum channel speeds of up to 108Mbps

You can find this adapter that is seated inside the wireless products such as the NetPassage 28G. WLM54G can be removed from or inserted on the PCBA of the NetPassage 28G.

4. Packaging Contents

The Compex NetPassage 28G retail package contains the following items to start you off:

- 1x Compex NetPassage 28G
- 1x External Power Adapter
- 1x Quick Install Guide with Warranty Registration Form
- 1x Product CD (containing User's Manual, Firmware Recovery Tool & Utilities)
- 1x Wall-Mounting Template
- 1 x UTP MDI RJ45 Ethernet Straight Cable

5. Network Infrastructure

Only a few simple steps are required to set up the NetPassage 28G to begin your broadband Internet sharing as part of your wired and wireless network infrastructure.

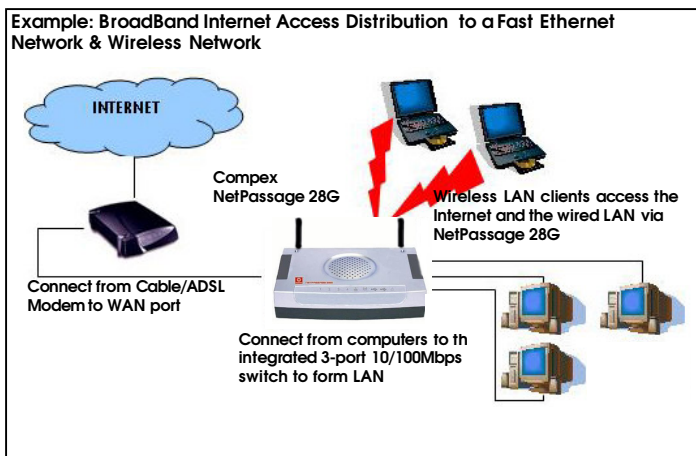


Figure 2 Setting up Compex NetPassage 28G

6. Hardware Installation



1. Connect an Ethernet cable from the cable/ADSL modem to the WAN port of the NetPassage 28G.

2. For Wired user, connect an Ethernet cable from your computer's network port to any of the LAN ports of the NetPassage 28G.

3. Connect the power adapter from the main power supply to NetPassage 28G. Please do not turn on the power during the installation for safety reasons.

Once the hardware setup is done, you may power on the device now.

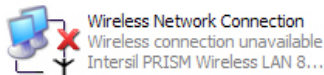


NOTE
For Wired Network users, please skip Section 5 and go to Section 6.

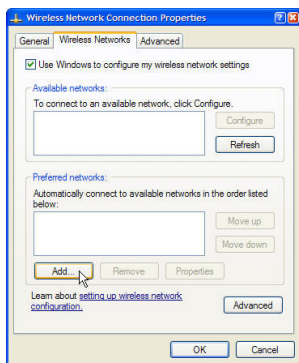
7. Configuring Wireless Network Connection

Depending on your client's wireless adapter, you may set up Windows XP's Wireless Network Connection as follows:

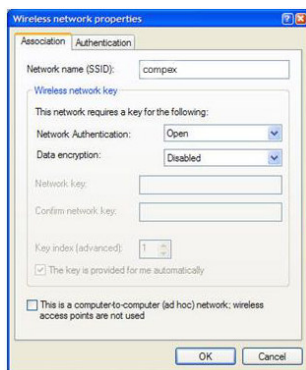
1. Right-click on **Wireless Network Connection** corresponding to the wireless Ethernet adapter you wish to connect with the NetPassage 28G, and click on **Properties**.



2. At the **Wireless Networks** tab, click on the **Add** button under **Preferred Networks**.



3. At the **Network name (SSID)** field, type in 'compex' (the factory default of NetPassage 28G). Click OK.



8. Configuring TCP/IP Settings

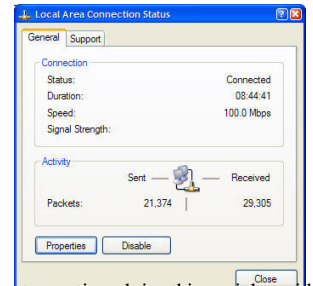
You should configure your PC or wireless client to obtain IP address automatically. For users of Microsoft Windows XP, you may configure the TCP/IP settings as follows:

1. Click the **Start** button. Select **Settings** and click the **Control Panel** icon. Then double-click the **Network Connection** icon.

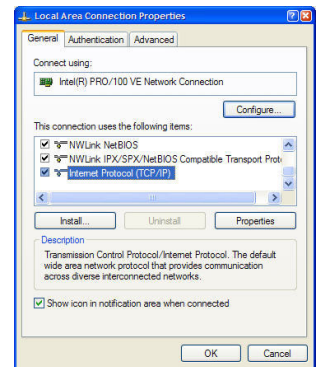
Right click on **Local Area Connection** or **Wireless Network Connection** corresponding to the Ethernet adapter you wish to connect to NetPassage 28G.



NOTE
The Advanced Setup is not mentioned in this quick guide. Please refer to User's Manual for more information.



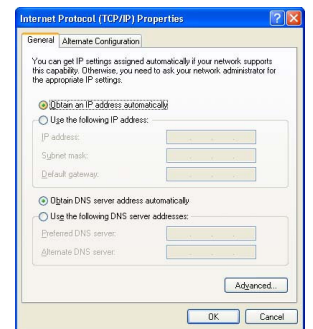
2. Under **General** tab at **This connection uses the following item**, make sure the box next to **Internet Protocol (TCP/IP)** is checked. Then highlight **Internet Protocol (TCP/IP)**, and click the **Properties** button.



3. Check the radio button next to **Obtain an IP address automatically**.

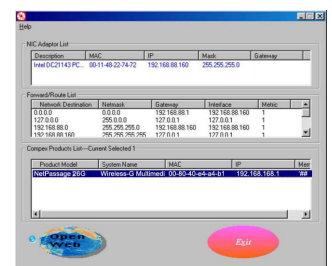
Then click the **OK** button on this page, and the **OK** button on the previous page it returns you to.

Restart your computer to complete the PC configuration.



9. Getting Started with Wizard Setup

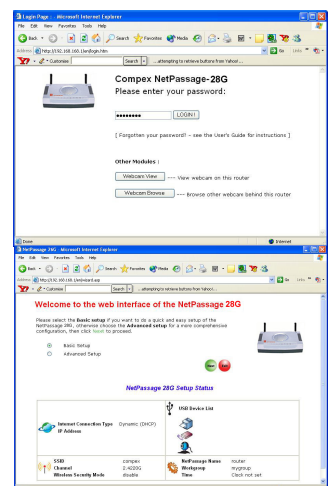
1. Insert the Product CD to your CD-ROM drive, go to **Utilities** section and run the **uConfig** program, select **Wireless-G Multimedia Gateway** and click on **OpenWeb** button.



Alternatively, launch Internet Explorer Browser (or Netscape). At the Address field, key in <http://192.168.168.1>.

The default password is pre-entered in the field provided. Just click on the **LOGIN!** button to access the main page of Comex NetPassage 28G. The factory default password is 'password'.

2. Check the radio button next to **Basic Setup**. Click on the **Next** button.



3. The first page of Setup Wizard is an overview of the basic setup.

Internet Connection

This functionality lets you specify the type of Internet Connection you want to use.

Wireless Setup

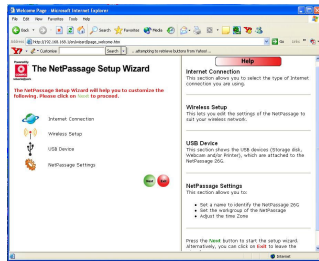
This functionality lets you configure the settings of the gateway to suit your wireless network.

USB Device

This functionality gives you a quick glimpse of the summary on the USB devices that are connected to the gateway.

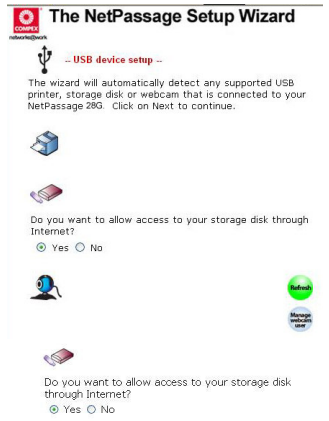
NetPassage Settings

This functionality lets you identify the gateway and create a workgroup for the gateway. It also lets you set up the time zone of the locale.



6. Then the Wizard will detect if any of the USB devices such as printer, storage disk or webcam are connected to NetPassage 28G.

For more details on setting up USB devices, refer to User's Manual.



If you want to allow access to your storage disk via Internet, click **Yes**. Then you will be prompted to enter the following data:

System Name

The default name is 'ROUTER' so you may change it if you wish. So create a better name to identify your gateway.

NetBIOS Name

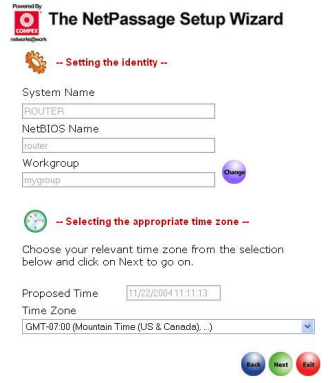
The default name is 'router' so you may change it if you wish. This name for NetPassage 28G will appear when you browse the MS Windows Network Neighbourhood.

Workgroup

The default name is 'mygroup'. If you wish, create an appropriate name for the workgroup of your gateway.

Time Zone

Set up the time zone of this locale.



NOTE

NOTE

For more details, please refer to User's Manual. Alternatively, refer to **Help** on the right side of the main page here.

4. To setup your WAN connection, select the following types of **Internet Connection** such as:

Static IP

For configuring **Static IP**, you need to manually enter IP Address, Network Mask and Gateway IP Address that are provided by your ISP.

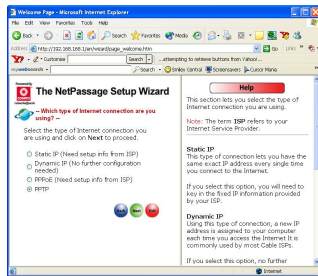
Dynamic IP (used as an example in this guide)

PPPoE

For configuring **PPPoE**, you have to enter Username and Password that are provided by your ISP.

PPTP

For configuring **PPTP**, you have to enter Username, Password, Network Mask and VPN Server that are provided by your ISP. Take note that VPN Server is the IP of your ISP PPTP server.



For configuring Static IP address

IP Address: 203.120.12.240
 Network Mask: 255.255.255.0
 Gateway IP Address: 203.120.12.2

For configuring PPPoE

Username: guest
 Password: [input field]

For configuring PPTP

Username: [input field]
 Password: [input field]
 IP Address: [input field]
 Network Mask: [input field]
 VPN Server: [input field]

To proceed, click on the **Next** button.

5. To configure the following parameters:

SSID

The default SSID is 'compex'. Click on the **Change** button to enter your preferred SSID name.

Remember to change your wireless clients' settings illustrated in Section 5 after NetPassage 28G has rebooted and the new SSID has taken effect.

Channel

Click on the down-arrow button next to **Channel**. From the list, select your preferred wireless network channel.

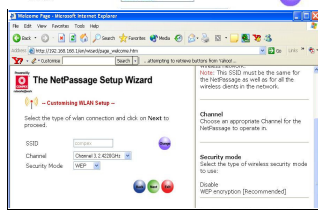
Security Mode

You may choose to disable, enable **WEP** or enable **WPA-PSK** to secure the wireless connection.

If **WEP** is enabled, select Hex or Ascii for the key string type to be used. Then key in the transmission key.

If **WPA-PSK** is enabled, select Hex or Ascii for the key string type to be used. The default **WPA-PSK** is '11111111'. The default **GTK update** is '600'.

To proceed, click on the **Next** button.



Channel: Channel 3, 2.4220GHz
 Security Mode: WPA-PSK

WEP key
 Input key and click on **Next** to proceed.

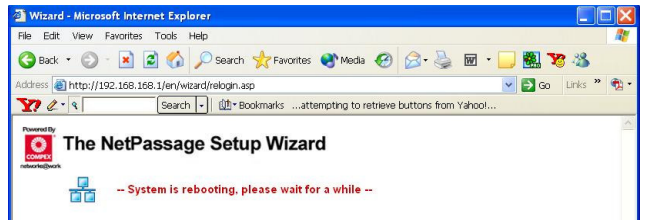
Key String Type:
 Hex (0~9, a~f, A~F) Length 10 or 26
 Ascii (0~9, a~z, A~Z) Length 5 or 13
 Transmission key: 911191122

WPA-PSK key
 Input key and click on **Next** to proceed.

Key String Type:
 Hex (0~9, a~f, A~F) Length 64
 Ascii (0~9, a~z, A~Z) Length 8~63
 WPA-PSK: 11111111
 GTK update(seconds): 600 (60~9999)

7. You will see the summary of NetPassage 28G setup appear for your viewing. Check if the settings such as WAN IP Address, etc are correct.

8. Click on the **Finish** button to save the settings and reboot NetPassage 28G.



9. You will be returned to the Login page after 30 seconds. Alternatively, you can repeat Step 1.

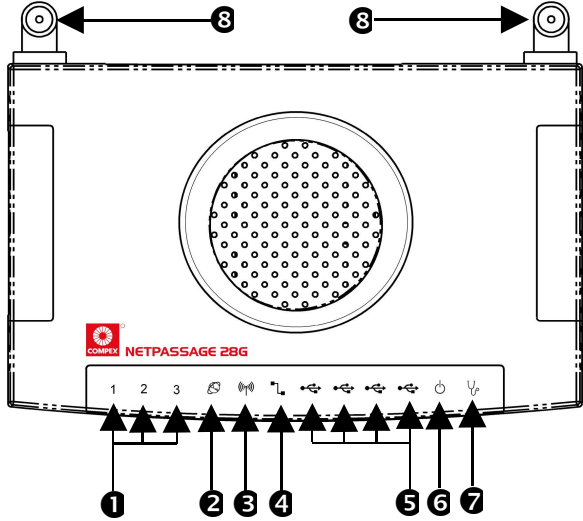
Further Information References

If you have other Windows operating systems or broadband Internet accounts, please refer to the User's Manual in the accompanying Product CD.

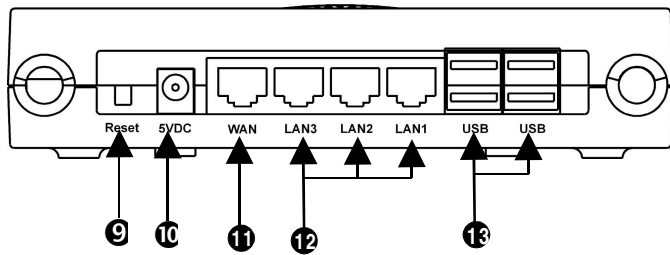
This document may become superseded, in which case you may find its latest version at: <http://www.compex.com.sg/prodspec.asp?f=Manual&s=1>

10. Schematic Overview of the NetPassage 28G

Top View



Back View



Label	Name	Description	
1	LAN Link/ActLED 1,2,3	Steady GREEN Flashing GREEN	LAN connection is on. Data transmission at LAN connection.
2	WAN LED	Steady GREEN	WAN connection is on.
3	Wireless LAN Link/Act LED	Steady GREEN Flashing GREEN	At least one wireless client is present. Activity is detected in the wireless network.
4	WAN Link/ActLED	Flashing GREEN	Data transmission at WAN connection.
5	USB LEDs 1,2,3,4	Steady GREEN Flashing GREEN	USB device is detected. Data transmission at respective USB ports.
6	Power LED	Steady BLUE	The device has powered up.
7	Diagnostic LED	Flashing GREEN	It indicates that the firmware is corrupted.
8	External Antennas	Foldable, non-detachable antennas	
9	Reset	Push button	To reboot, press once. To reset password, press and hold the button for 5 seconds before releasing it. To restore factory default settings, press and hold the button for 8 seconds before releasing it.
10	5 VDC	Power Input	
11	WAN (RJ45 Port)	WAN port connects to Cable/ADSL modem	
12	LAN RJ45 Ports 1,2,3	Integrated LAN Switch Ports	
13	USB Ports 1, 2,3,4	Integrated USB2.0 Ports	

9. Specification

Technical Specification	
Industrial Standards	<p>Wired:</p> <ul style="list-style-type: none"> IEEE 802.3 10Base-T IEEE 802.3u 100Base-Tx IEEE 802.3x Flow Control <p>Wireless:</p> <ul style="list-style-type: none"> IEEE 802.11b IEEE 802.11g

WAN Interface	1x Auto MDI/MDI-X RJ45 Ethernet Port for external Cable/ADSL modem
WAN Type	<ul style="list-style-type: none"> Static IP Dynamic IP PPP over Ethernet (PPPoE) Point to Point Tunneling Protocol (PPTP)
LAN/WLAN Interface	<p>Wired:</p> <ul style="list-style-type: none"> Integrated 3x Auto MDI/MDI-X RJ45 Ethernet Port for 10/100Mbps Switch <p>Wireless:</p> <ul style="list-style-type: none"> Operating channels, frequency of: <ul style="list-style-type: none"> 11 Channels 2.400~2.4835, US, Canada 13 Channels, 2.400~2.4970, Europe 4 Channels 2.400~2.4835, France Direct Sequence Spread Spectrum modulation, Orthogonal Frequency Division Multiplexing modulation Data rates: 108Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps Security: <ul style="list-style-type: none"> 64-bit/128-bit WEP WPA, WPA-PSK Wireless Pseudo VLAN
USB2.0 Ports	<p>4X integrated USB ports supporting:</p> <ul style="list-style-type: none"> PC Web Camera Print Server Storage disk drive
IP Addressing	All Classful/Classless subnets
Built-in DHCP Server	Yes
DHCP Reservation	Yes
NAT Firewall	Yes
Stateful Packet Inspection (SPI) Firewall	Yes
Load-Balancing/Fail-Over Redundancy	Parallel Broadband
Virtual Server	IP and Port Forwarding, De-Militarized Zone hosting
IP Packet Filtering	Time-based, TCP Port, Source IP Filtering
URL Filtering	Yes
IP Routing	Static Routing Entry
VPN Client Pass-Through	PPTP, IPSec
Configuration Interface	Web-based Configuration Menus
Profile Backup and Restore	Yes
Firmware Upgradeable	Yes
Physical and Environment	<p>Temperature:</p> <ul style="list-style-type: none"> Operating : 0°C to 40°C Storage : -20°C to 70°C <p>Humidity:</p> <ul style="list-style-type: none"> Operating: 10% to 80% RH Storage : 5% to 90% rh
Physical Dimension	174mm x 104mm x 40 mm (L x W x H)

Disclaimer: Compex, Inc. provides this guide without warranty of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Compex, Inc. may make improvements and/or changes to the product and/or specifications of the product described in this guide, without prior notice. Compex, Inc. will not be liable for any technical inaccuracies or typographical errors found in this guide. Changes are periodically made to the information contained herein and will be incorporated into later versions of the guide. The information contained is subject to change without prior notice.

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Manual/Revision by Ann Tay
Manual Number: M-0431-V1.1C Version 1.1, November 2004

FCC NOTICE: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception which can be determined by turning the PC off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Increase the distance between the computer and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

FCC Compliance Statement: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

ICES 003 Statement
This Class B digital apparatus complies with Canadian ICES-003.

DECLARATION OF CONFORMITY: Compex, Inc. declares that the product:

Product Name: Compex Wireless-G Multimedia Gateway
Model No.: NetPassage28G conforms to the following Product Standards:
Radiated Emission Standards: EN55022A, FCC Part 15 Class B
Conducted Emission Standards: EN55035P2 conducted emission; EN55022A conducted emission, FCC Part 15 Class B
Immunity Standards: IEC 801-2; IEC 801-3; IEC 801-4

Therefore, this product is in conformity with the following regional standards: FCC Class B — following the provisions of FCC Part 15 directive; CE Mark — following the provisions of the EC directive.

Manufacturer's Name: Compex, Inc.	Technical Support
Address: 4051 E. La Palma Ave. Anahem, CA 92807, USA	ReadyLINK Network Technology GmbH Albert Einstein Straße 34/M21, D-63322 Rödermark, Germany
European Contact ReadyLINK Network Technology GmbH	Fax: +49 6074-4-9 0668

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WARRANTY REGISTRATION CARD		(M-0088-V2.3C)	
You can register via Internet at:		http://www.cpx.com or http://www.compex.com.sg	

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Or E-mail: support@compex.com.sg with the following information:

To activate the warranty, please complete this card and return to Compex within ninety (90) days of purchase date.

Product:	Purchase Date:	Model:	Serial No:
Name:		Title:	E-mail:
Address:			
Postal/Zip Code:			Country:
Phone: () - -			
How did you learn about Compex?	<input type="checkbox"/> Work	<input type="checkbox"/> Friend	<input type="checkbox"/> Internet
	<input type="checkbox"/> Dealer	<input type="checkbox"/> Magazine	<input type="checkbox"/> Exhibition
<input type="checkbox"/> Other: _____			

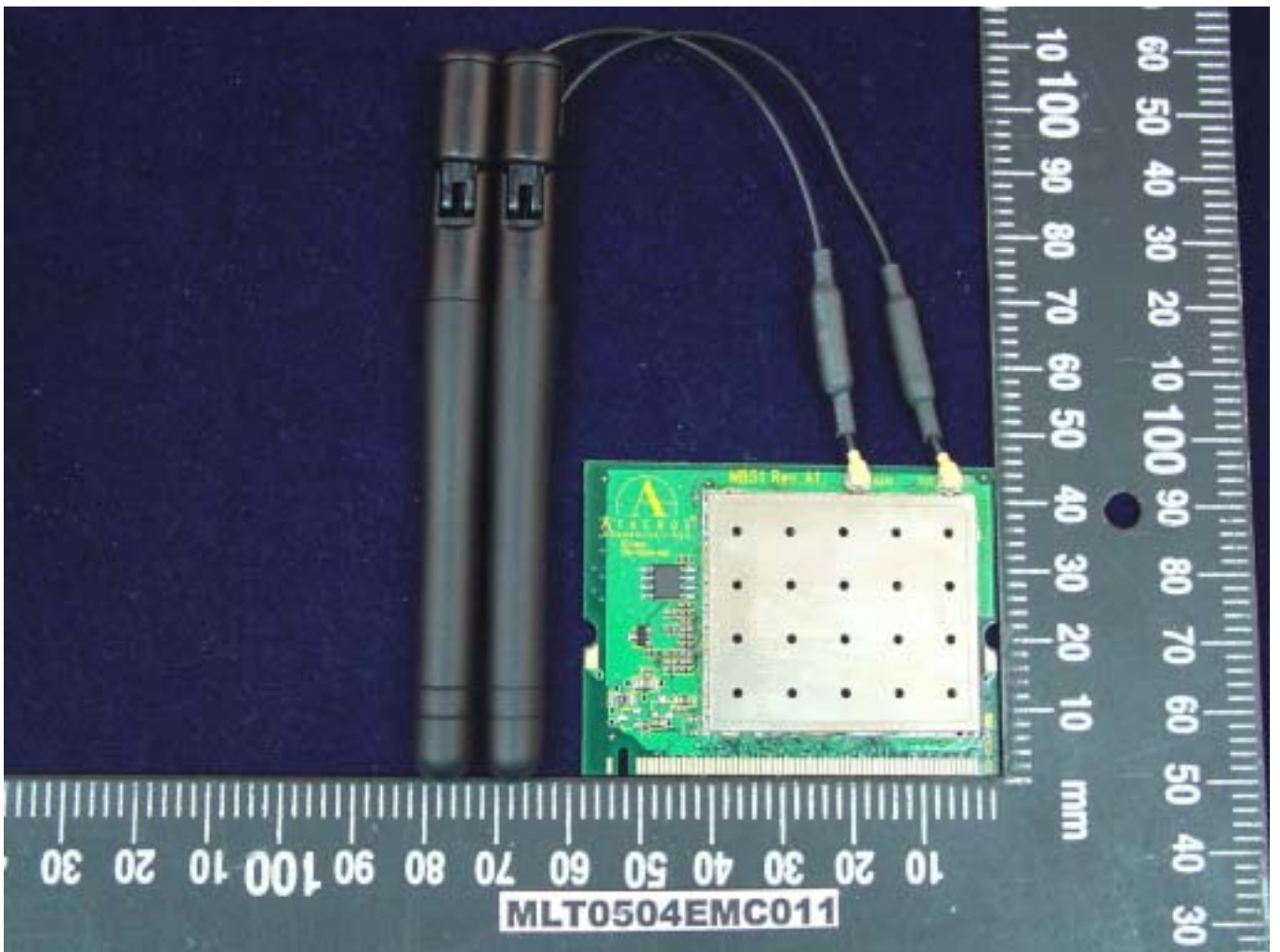
Note:

For purchases within U.S.A and Canada, please fax to Compex, Inc. at (714) 630-6521

For purchases outside U.S.A and Canada, please fax to Compex Systems Pte Ltd at (65) 6280-9947.

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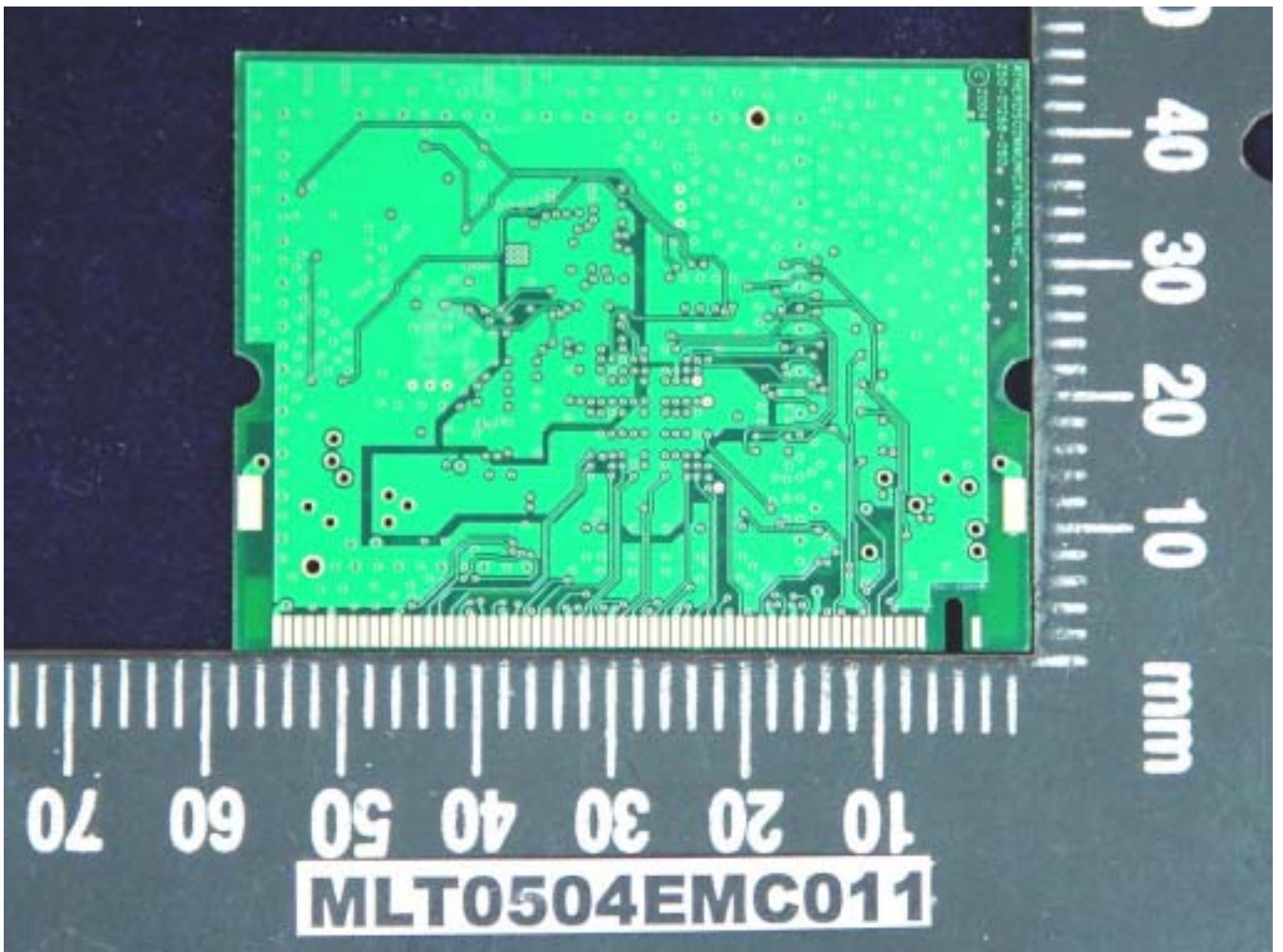
Appendix III- EUT Photographs



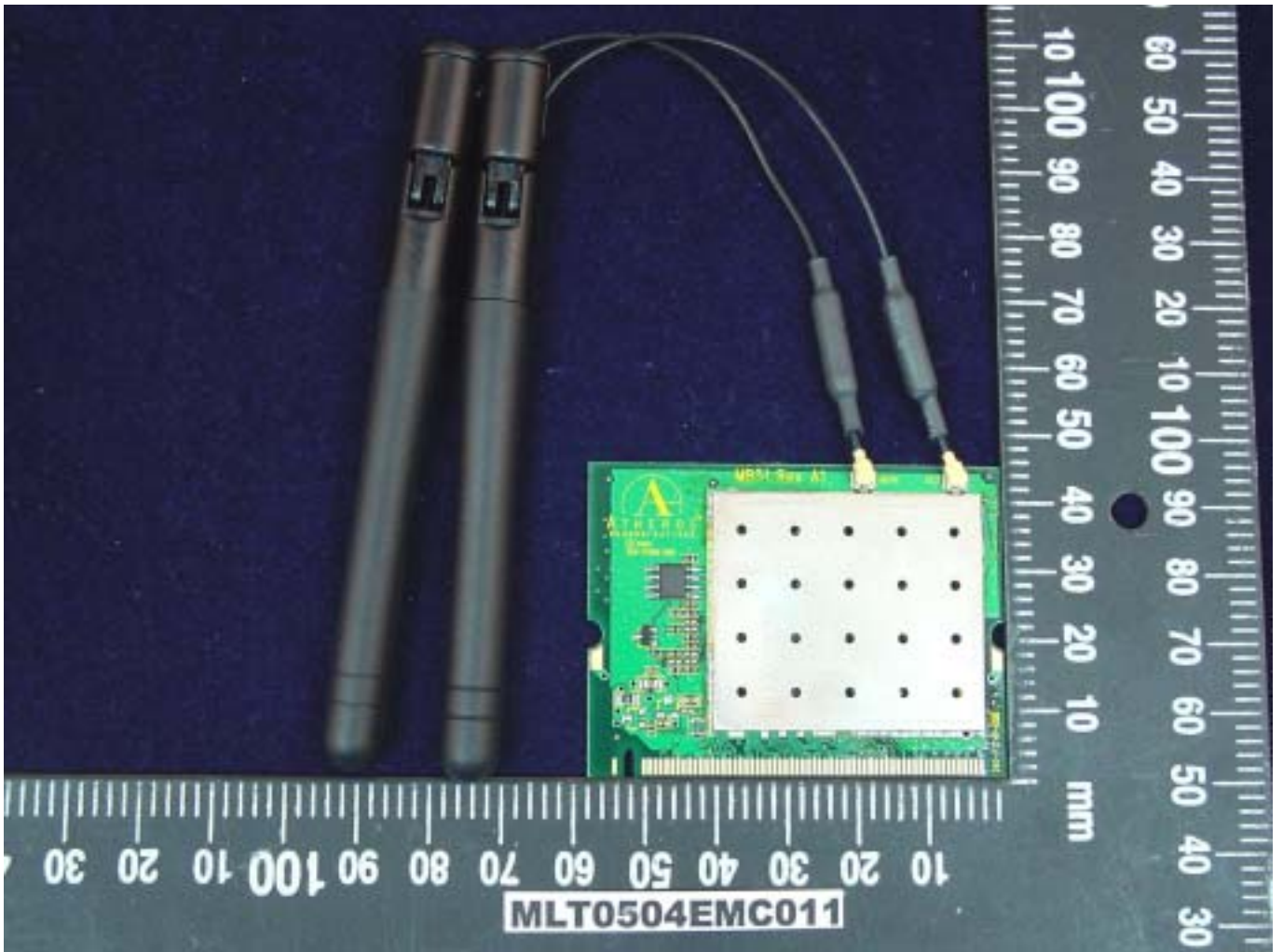
Appendix III- EUT Photographs



Appendix III- EUT Photographs



Appendix III- EUT Photographs



Appendix III- EUT Photographs



Appendix III- EUT Photographs

