EXHIBIT B

Test Report

Test Report-

Report No.

Specifications Test Method

Applicant address

Applicant Items tested Model No.

Results Sample received date

Prepared by

Authorized by

Issue date

Modifications

Tested by Office at Open site at

Conditions of issue:

- (1) This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relates to the sample submitted for testing.
- (2) The client to claim product endorsement by NVLAP or any agency of U.S. Government must not use this report.

★ FCC ID: L40U002TX

Report No.: C0915740, 10×100M USB ETHERNET ADAPTER, FCC Part 15.109 (g), Class B Test date: 09/03/99, Training Research Co., Ltd., TEL: 886-2-26935155, Fax: 886-2-26934440

C0915740

FCC Part 15.109(g), Class B ANSI C63.4 1992

16F, No. 75 Hsin Tai Wu RD., Sec. 1 Bldg #A Hsi-Chih, Taipei Hsien, Taiwan

CIS TECHNOLOGY INC. 10×100 M USB ETHERNET ADAPTER WS-U002TX (Sample # C09740)

Compliance (As detailed within this report) 09/03/1999 (month / day / year)



General Manager (Frank Tsai)

project engineer

Sep. 16, 1999

(month / day / year)

None

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Test Report	
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2/14

Contents

Chapter 1 Introduction

Description of EUT	.3
Configuration of Test Setup	.4
List of Support Equipment	.5

Chapter 2 Conducted Emission Test

Test Condition and Setup	.7
Conducted Test Placement	

Chapter 3 Radiated Emission Test

Test Condition and Setup	9
Radiated Test Placement	10

Appendix A:

Conducted test result	
Appendix B:	
Radiated test result	

Chapter 1 Introduction

Description of EUT:

The EUT is a data transmission / receiver facility. It is designed to connect with the IBM PC or compatible computer and makes your data equipment available to transmit / receive data via the EUT. During testing the EUT was operated at Tx or Rx mode for each emission measured. This was done in order to insure that maximum emission levels were attained.

Connections of EUT:

(1)The USB connector of EUT is connected with the USB B port of PC.

(2)The RJ-45 jack of EUT is connected with a Lan card installed in a PC located remotely.

Test method:

When the measurement was taken, the following modes were tested:

"10Mbps '' and "100Mbps ''

Pretest was found that the emission of operating mode is worse than standby mode. So, The final test is made at the operating mode.

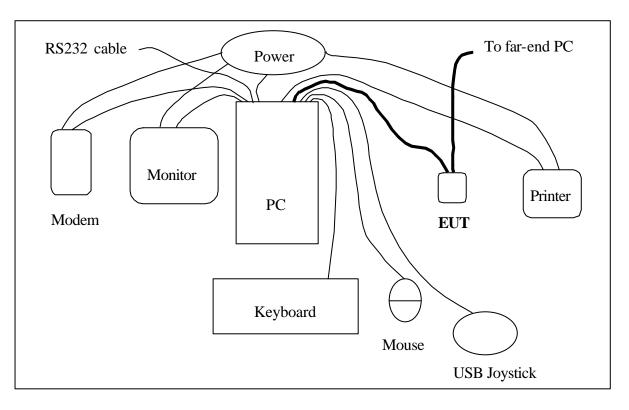
During testing, the EUT was operated at "transmitting" and "receiving" mode simultaneously.

The test placement as the photographs showed is the worst case emission placed. (If the emission is close to the ambient, the resolution BW and view resolution will be reduced and the data will be recorded by detection of maximum hold peak mode.)

The testing configuration of test setup is showing in the next page.

Test Report	
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Configuration of test setup



Connections:

<u>PC:</u>

*Serial A port --- a external modem with 76 cm long, shielded, RS-232 cable

*Serial B port --- a shielded RS232 cable with 76cm long, no ferrite bead

*Printer port --- a Printer with 1.2m length data cable

*Keyboard port --- a Keyboard with 1m length data cable

*Mouse port --- a Mouse with 0.7m long of data cable

*Monitor port --- a monitor with 1m length data cable

*USB A port --- a USB joystick with 1.5m long shielded, no ferrite bead data cable

*USB B port --- EUT

(Each port on PC is connected with suitable device)

EUT:

* UTP port--- a 20m long, non-shielded, no ferrite bead, RJ-45 cable to the Lan Card installed in a PC located remotely

*USB connector --- via a 0.65m long, shielded, no ferrite core, USB ' ' A-B' ' cable to the USB B port of PC.

Report No.: C0915655, Ethernet Card for PCI, FCC Part 15.109 (g), Class B Test date: 08/11/99, Training Research Co., Ltd., TEL: 886-2-26935155, Fax: 886-2-26934440

5/14

List of support equipment

Conducted (Radiated) test:

PC	:	ACER
Model	:	M11E/H71-X35I19X
Serial No.	:	TM12535
FCC ID	:	DOC Approval
Power type	:	AC 100~120V, 50 ~60Hz, 5A / 200~240 VAC, 50 ~60Hz, 3A, Switching
Power cord	:	non-Shielded, 1.7m long, Plastic, no ferrite core
Monitor	:	HP
Model No.	:	D2821
Serial No.:	TW	73512262 (TW 73147163)
FCC ID	:	A3KMO64
Power type	:	AC 110~120 / 220~240 VAC, Switching
Power cord	:	Non-Shielded, 3m long, no ferrite core
Data cable	:	Shielded, 1.8m long, with ferrite core
Keyboard	:	Digital
Model No.	:	KB-5923
Serial No.:	007	4904837 (9874904665)
	957	
FCC ID	957 :	E8HKB-5923
	:	
FCC ID	:	Е8НКВ-5923
FCC ID Power type	: :	E8HKB-5923 By PC
FCC ID Power type	: :	E8HKB-5923 By PC
FCC ID Power type Data cable	:	E8HKB-5923 By PC Shielded, 1.8m long, with ferrite core
FCC ID Power type Data cable Printer	: : : :	E8HKB-5923 By PC Shielded, 1.8m long, with ferrite core
FCC ID Power type Data cable Printer Model No.	: : : :	E8HKB-5923 By PC Shielded, 1.8m long, with ferrite core HP C2642A
FCC ID Power type Data cable Printer Model No. Serial No. :	: : : :	E8HKB-5923 By PC Shielded, 1.8m long, with ferrite core HP C2642A 59A196GV
FCC ID Power type Data cable Printer Model No. Serial No. : FCC ID	: : : :	E8HKB-5923 By PC Shielded, 1.8m long, with ferrite core HP C2642A 59A196GV B94C2642X

Test Report

Model No. : XDM-9624	
FCC ID : IFAXDM-9624	
Power type : 220VAC, 50Hz / 9VAC, 1A	
Power cord : Non-shielded, 1.9m long, no ferrite cord	
Data cable : RS232, Shielded, 1.2m long, no ferrite core	
RJ11C x 2, 7' long non-shielded, no ferrite core	
Mouse : Hewlett Packard Mouse	
Model No. : C3751B	
Serial No.: LCA52707170	
FCC ID : DZL210582	
Power type : Powered by PC	
Power Cable : Non – Shielded. 5.5' long, Plastic hoods, No ferr	rite bead
Joystick : Padix	
Model : QF-606U, QF-707U (DoC Approval)	
Power Type : By PC	

Chapter 2 Conducted emission test

Test condition and setup:

All the equipment is placed and setup according to the CISPR 22.

The EUT is assembled on a wooden table that is 80 cm high, is placed 40 cm from the back-wall that is a vertical conducting plane. One LISN is for EUT, the other LISN is for support equipment. They are all placed on the conductive ground. The EUT's LISN connect a line switch box for selecting L1 or L2, then connect to a preamplifier and spectrum.

The spectrum scans from 150KHz to 30MHz. Conducted emission levels are detected at max. peak mode. But if the max. peak mode failed, it will be measured by CISPR's quasi-peak detection mode.

While testing, there is the worst-emission plot printed at peak detection mode, and there are more than 6 highest emissions relative to limit recorded. The plot is kept as the original data, not included in test report.

			Calibration Date		
Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum analyzer	8594EM	ΗΡ	3710A00279	01/07/99	01/07/00
LISN (EUT)	3825/2	EMCO	9411-2284	05/20/99	05/20/00
LISN (Support E.)	AC3-001	TRC		05/20/99	05/20/00
Preamplifier	AC3-002	TRC		05/20/99	05/20/00
Line switch box	AC3-003	TRC		05/20/99	05/20/00

List of test Instrument:

The level of confidence of 95%, the uncertainty of measurement of conducted emission is \pm 2.4 dB.

Test Result: Pass (Appendix A)

Conducted Test Placement: (Photographs)



Chapter 3 Radiated emission test

Test condition and setup:

Pretest: Prior to the final test (OATS test), the EUT is placed in a anechoic chamber and scan from 30MHz to 1GHz. This is done to ensure the radiation exactly emits form the EUT.

Final test: Final radiation measurements are made on a **10** - **meter**, open-field test site. The EUT is placed on a nonconductive table that is 0.8m height, the top surface is 1.0 x 1.5 meter. The placement is according to CISPR 22.

The spectrum is examined from 30 MHz to 1000 MHz measured by HP spectrum.

The EMCO whole range Antenna is used to measure frequency from 30 MHz to 1GHz. The final test is used the spectrum HP 8594EM.

Measure more than six top marked frequencies generated form pretest by computer step by step at each frequency. The EUT is rotated 360 degrees, and antenna is raised and lowered from 1 to 4 meters to find the maximum emission levels. The antenna is used with both horizontal and vertical polarization.

Appropriated preamplifier that is made by TRC is used for improving sensitivity and precautions is taken to avoid overloading. The spectrum analyzer's 6dB bandwidth is set to 120 KHz, and the EUT is measured at quasi-peak mode.

If the emission is close to the frequency band of ambient, the tester will recheck the data and the corrected data will be written in the test data sheet. If the emission is just within the ambient, the data from anechoic chamber will be taken as the final data.

List of test Instrument	<u>Calibra</u>	-			
Instrument Name	Model No.	Brand	Serial No.	Last	Next
Spectrum analyzer	8594EM	ΗP	3619A00198	11/17/98	11/17/99
RF Pre-selector	AC4-001	TRC		05/20/99	05/20/00
Antenna (30M-2G Hz)	3141	EMCO	9711-1076	12/17/98	12/17/99
Open test side (Antenna, Am	05/20/99	05/20/00			

The level of confidence of 95%, the uncertainty of measurement of radiated emission is \pm 4.96 dB.

Test Result: Pass (Appendix B)

Radiated Test Placement: (Photographs)



Test Report-....

Appendix A

Conducted Emission Test Result:

Testing room: Temperature : 26 ° C Humidity : 65 % RH

	Line .	1
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813.00

935.00

1027.00

1149.00

1400.00

1574.00

16040.00

37.40

37.86

36.45

36.84

36.59

36.65

45.44

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FREQUENCY	READ	DING AMPLI	TUDE	LIMIT		MARGIN		
(KHz)	Peak	Quasi-peak	Average	Quasi-Peak	Average	(dB)		
	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)			
575.00	37.19	*** **	*** **	56.00	46.00	-8.81		
697.00	37.41	***.**	*** **	56.00	46.00	-8.59		
910.00	36.73	***.**	*** **	56.00	46.00	-9.27		
1027.00	36.47	***.**	*** **	56.00	46.00	-9.53		
1149.00	37.69	***.**	***.**	56.00	46.00	-8.31		
1241.00	37.42	***.**	*** **	56.00	46.00	-8.58		
1516.00	36.70	***.**	***.**	56.00	46.00	-9.30		
1635.00	36.75	***.**	*** **	56.00	46.00	-9.25		
1814.00	37.68	***.**	*** **	56.00	46.00	-8.32		
16040.00	45.39	***.**	*** **	60.00	50.00	-4.61		
<u>Line 2</u>								
FREQUENCY	READ	DING AMPLI	TUDE	LIMIT		MARGIN		
(KHz)	Peak	Quasi-peak	Average	Quasi-Peak	Average	(dB)		
()	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)			
452.00	38.05	***.**	***.**	57.37	47.37	-9.32		
575.00	38.25	***.**	***.**	56.00	46.00	-7.75		
692.00	37.96	***.**	***.**	56.00	46.00	-8.04		

* The reading amplitudes are all under average limit.

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***.**

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56.00

56.00

56.00

56.00

56.00

56.00

60.00

46.00

46.00

46.00

46.00

46.00

46.00

50.00

-8.60

-8.14

-9.55

-9.16

-9.41

-9.35

-4.56

Report No.: C0915655, Ethernet Card for PCI, FCC Part 15.109 (g), Class B Test date: 08/11/99, Training Research Co., Ltd., TEL: 886-2-26935155, Fax: 886-2-26934440

Appendix B

Radiated Emission Test Result: (Horizontal)

Test Conditions:

Testing room : Temperature	:	26 ° C	Humidity: 37 % RH
Testing site : Temperature	:	26 ° C	Humidity : 45 % RH

Frequency	0		Table	Correction	Corrected		Margin
	Amplitude	Heigh		Factors	Amplitude	limit	
MHz	dBµV	m	degree	dB/m	dBµV/m	dBµV/m	dB

35.520	42.64	2.50	34	-23.18	19.46	30.00	-10.54
40.130	43.65	2.50	85	-22.18	21.47	30.00	-8.53
48.010	41.14	2.50	300	-21.94	19.20	30.00	-10.80
601.640	41.48	0.99	289	-16.77	24.71	37.00	-12.29
868.870	44.80	0.99	35	-21.04	23.76	37.00	-13.24

Note:

- (1) Margin = Amplitude limit, if margin is minus means under limit.
- (2) Corrected Amplitude = Reading Amplitude + Correction Factors
- (3) Correction factor = Antenna factor + (Cable Loss Amplitude gain)

(For example: 30MHz correction factor = 15.5 + (-15.26) = 0.24 dB/m)

Frequency	Reading Amplitude	Ant. Heigh	Table	Correction Factors	Corrected Amplitude	Class B limit	Margin
MHz	dBµV	m	degree	dB/m	dBµV/m	dBµV/m	dB
32.600	44.38	4.01	144	-23.38	21.00	30.00	-9.00
37.370	51.17	0.99	5	-22.77	28.40	30.00	-1.60
41.610	50.96	0.99	99	-22.17	28.79	30.00	-1.21
46.130	42.79	0.99	245	-22.08	20.71	30.00	-9.29
47.800	47.73	2.51	238	-21.95	25.78	30.00	-4.22
77.110	47.02	2.51	289	-24.15	22.87	30.00	-7.13
175.020	42.15	0.99	207	-22.75	19.40	30.00	-10.60
216.060	43.79	0.99	109	-24.37	19.42	30.00	-10.58

Radiated Emission Test Result: (Vertical)

Final statement: This test report, measurements made by TRC are traceable to the NIST.