

FCC 47 CFR PART 15 SUBPART B TEST REPORT

For

Applicant: Speed Dragon Multimedia Limited

Rm 1312, Vanta Industrial Centre, 21-33 Tai Lin Pai Rd, Kwai Address:

Chung, N.T, Hong Kong

Product Name: PCI-Express Dual Gigabit Ethernet Controller Card

Model Number: ENW02B

Brand Name: N/A

FCC ID: U3P-ENW02B

Report No.: MTE/SAL/F14101308

Date of Issue: Oct. 08, 2014

Issued by: Most Technology Service Co., Ltd.

Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,

Shenzhen, Guangdong, China

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Report No.: MTE/SAL/F14101308

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	3
2. GENERAL INFORMATION	4
2.1 PRODUCT INFORMATION	4
2.2 OBJECTIVE	5
2.3 TEST STANDARDS AND RESULTS	5
2.4 ENVIRONMENTAL CONDITIONS	5
2.5 MEASUREMENT UNCERTAINTY	5
3. TEST METHODOLOGY	6
3. 1TEST FACILITY	6
3.2 GENERAL TEST PROCEDURES	6
3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS	7
4 SETUP OF EQUIPMENT UNDER TEST	8
4.1 SETUP CONFIGURATION OF EUT	8
4.2 SUPPORT EQUIPMENT	8
4. 3 TEST EQUIPMENT LIST	9
5. 47 CFR PART 15B REQUIREMENTS	10
5.1 GENERAL INFORMATION	10
6. LINE CONDUCTED EMISSION TEST	11
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST	11
6.2. BLOCK DIAGRAM OF TEST SETUP	11
6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	12
6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	12
6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	12
7. RADIATED EMISSION TEST	13
7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B	15
7.2 TEST DESCRIPTION	16
7.3 TEST RESULT	16
APPENDIX 1	21
PHOTOGRAPHS OF TEST SETUP	21

1. VERIFICATION OF CONFORMITY

Equipment Under Test: PCI-Express Dual Gigabit Ethernet Controller Card

Brand Name: N/A

Model Number: ENW02B

Series Number: N/A

FCC ID: U3P-ENW02B

Applicant: Speed Dragon Multimedia Limited

Rm 1312, Vanta Industrial Centre, 21-33 Tai Lin Pai Rd, Kwai Chung, N.T,

Hong Kong

Manufacturer: Speed Dragon Multimedia Limited

Rm 1312, Vanta Industrial Centre, 21-33 Tai Lin Pai Rd, Kwai Chung, N.T.

Hong Kong

Technical Standards: FCC Part 15 B

File Number: MTE/SAL/F14101308

Date of test: Oct. 08, 2014

Deviation: None **Condition of Test Sample:** Normal

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

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

Tested by (+ signature):		Gul		<u> </u>
	Sophia Liu		Sept. 19, 2014	
Review by (+ signature):		Henry	•	APPROVED :
	Henry Chen	,	Sept. 19, 2014	* EMC & SAFETY *
Approved by (+ signature):		Thus	•	_
	Yvetter Zhou	(Manager)	Oct. 08, 2014	

2. GENERAL INFORMATION 2.1 PRODUCT INFORMATION

Description:	PCI-Express Dual Gigabit Ethernet Controller Card
Model Name:	ENW02B
Series Number:	N/A
Model Difference description:	N/A
Power Supply:	DC 3.3V By PCI-E Socket
Temperature Range:	-20°C ~ +50°C

NOTE:

^{1.} For a more detailed features description about the EUT, please refer to User's Manual.

2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION						
Standard	Item Result		Remarks			
FOC 47 OFD Dort 45 Cubrant D	Conducted	PASS	Meet Class B limit			
FCC 47 CFR Part 15 Subpart B	Radiated	PASS	Meet Class B limit			

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2,Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±3.2dB

3. TEST METHODOLOGY

3. 1TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements. The FCC Registration Number is 490827.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

3.2 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423	399.9 - 410	4.5 - 5.15
	16.69475 - 16.69525	608 - 614	5.35 - 5.46
	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
	25.5 - 25.67	1300 - 1427	8.025 - 8.5
	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
	74.8 - 75.2	1660 - 1710	10.6 - 12.7
	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
	123 - 138	2200 - 2300	14.47 - 14.5
	149.9 - 150.05	2310 - 2390	15.35 - 16.2
	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
	156.7 - 156.9	2655 - 2900	22.01 - 23.12
	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
	167.72 - 173.2	3332 - 3339	31.2 - 31.8
	240 - 285	3345.8 - 3358	36.43 - 36.5
	322 - 335.4	3600 - 4400	(²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

4 SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 EUT configuration

Interface cables:

Interface cable	Length	Туре	Line		Line termination
	[m]		shielded	unshielded	
Power cord	1.5	three wires		\boxtimes	PC
Power cord	1.5	three wires		\boxtimes	Printer
DVI Cord	1.8	Video type		\boxtimes	PC
VGA Cord	1.8	Video type		\boxtimes	PC
DP Cord	1.8	Video type		\boxtimes	PC

Peripheral devices:

List out all peripheral not inclued with EuT used during the test

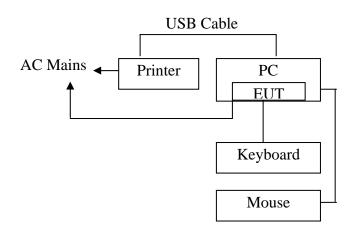
Kind of equipment	Manufacturer	Model no.
Mouse	Lenovo	M-UAE96
Keyboard	HP	SK-2880
PC	Lenovo	SS05750640
Printer	Canon	L11121E

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 Block Diagram of connection between EUT and simulation



4. 3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment Manufacturer Model No.		Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
4	Terminator	Hubersuhner 50Ω		No.1	2015/03/07
5	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10
7	Bilog Antenna	Sunol	JB3	A121206	2015/03/14
8	Test Antenna - Horn	SCHWARZBECK	BBHA9120D	756	2015/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163		2015/03/14
10	Cable	Resenberger	N/A	NO.1	2015/03/07
11	Cable	SchwarzBeck	N/A	NO.2	2015/03/07
12	Cable	SchwarzBeck	N/A	NO.3	2015/03/07
13	DC Power Filter	DuoJi	DuoJi DL2×30B		2015/03/07
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07
15	3 Phase Power Line Filter	DuoJi	DuoJi FNF 402B30		2015/03/07
16	Test Receiver	Rohde & Schwarz	Rohde & Schwarz ESCI		2015/03/10
17	Absorbing Clamp	Luthi	MDS21	3635	2015/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
19	AC Power Source	Kikusui	AC40MA	LM003232	2015/03/10
20	Test Analyzer	Kikusui	KHA1000	LM003720	2015/03/10
21	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2015/03/10
22	ESD Tester	Kikusui	KES4021	LM003537	2015/03/07
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2015/03/10
24	Signal Generator	IFR	2032	203002/100	2015/03/10
25	Amplifier	A&R	150W1000	301584	2015/03/14
26	CDN	FCC	FCC-801-M2-25	47	2015/03/10
27	CDN	FCC	FCC-801-M3-25	107	2015/03/10
28	EM Injection Clamp	FCC	F-203I-23mm	403	2015/03/10
29	RF Cable Universal Radio	MIYAZAKI	N/A	No.1/No.2	2015/03/10
30	Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2015/03/10
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2015/03/10

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR PART 15B REQUIREMENTS

5.1 GENERAL INFORMATION

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of X axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

EUT Test Procedure:

- 1. Put EUT on the test table.
- 2. Power on the EUT.
- 3. Make sure the EUT operates normally during the test.

Mode 1: Data Transmitting

During the measurement, A Communication link was established by EUT between two ports. The EUT was playing the data exchange function.

The EUT configuration of the emission test was PC+ Mouse + Keyboard + Printer + EUT.

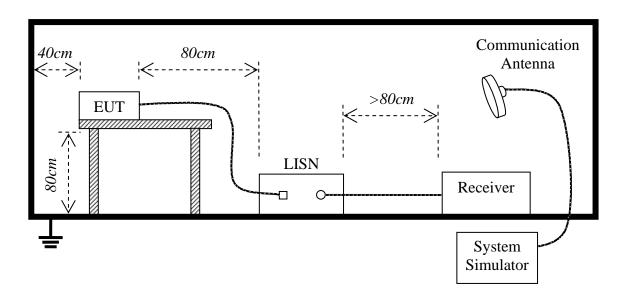
6. LINE CONDUCTED EMISSION TEST

6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Eraguanav	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz-500kHz	66-56	56-46			
500kHz-5MHz	56	46			
5MHz-30MHz	60	50			

**Note: 1. the lower limit shall apply at the transition frequency.

6.2. BLOCK DIAGRAM OF TEST SETUP



^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test							
Frequency Range II	nvestigated	1					
Mode of operation	Date	Report No.	Data#	Worst Mode			
Ping	2014-09-19	MTE/SAL/F14101308	ENW02B	\boxtimes			

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –20dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

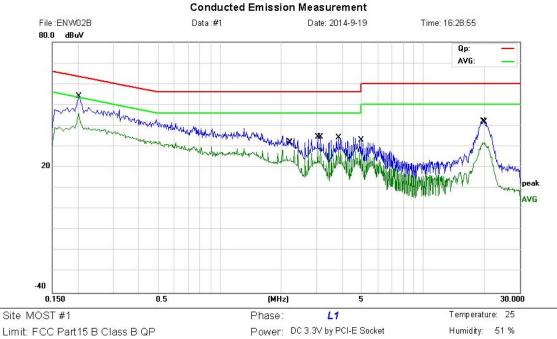
The test modes were carried out for all operation modes, The worst data was shown as the follow.

6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350



Limit: FCC Part15 B Class B QP

EUT: PCI-Express Dual Gigabit Ethernet Controller Card

M/N: ENW02B Mode: Ping Note:

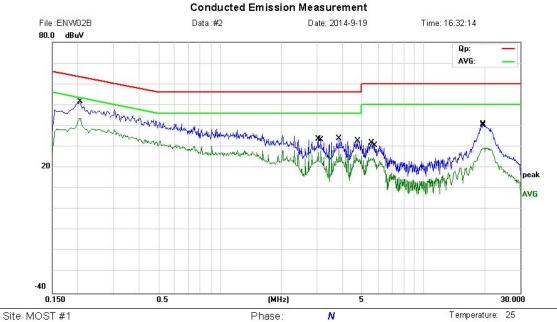
1 2 * 3	MHz 0.2020 0.2020 2.2020 2.2340	dBuV 41.99 34.01 22.95	dB 11.99 11.99 9.20	dBuV 53.98 46.00	dBuV 63.53 53.53	dB -9.55 -7.53	Detector QP AVG	Comment
	0.2020 2.2020	34.01 22.95	11.99	46.00				
	2.2020	22.95			53.53	-7.53	AVC	
3			9.20	00.45			AVG	
	2.2340			32.15	56.00	-23.85	QP	
4		15.23	9.23	24.46	46.00	-21.54	AVG	
5	3.0460	24.65	10.05	34.70	56.00	-21.30	QP	
6	3.1500	19.43	10.15	29.58	46.00	-16.42	AVG	
7	3.8580	17.67	10.86	28.53	46.00	-17.47	AVG	
8	3.8620	23.41	10.86	34.27	56.00	-21.73	QP	
9	4.8780	20.41	11.88	32.29	56.00	-23.71	QP	
10	4.8780	14.78	11.88	26.66	46.00	-19.34	AVG	
11	19.9100	33.00	9.00	42.00	60.00	-18.00	QP	
12	20.2140	22.79	9.00	31.79	50.00	-18.21	AVG	

^{*:}Maximum data x:Over limit I:over margin

Engineer Signature: Robert



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86026850 Fax: 0755-26013350



Limit: FCC Part15 B Class B QP

Power: DC 3.3V by PCI-E Socket

Humidity: 51 %

EUT: PCI-Express Dual Gigabit Ethernet Controller Card

M/N: ENW02B Mode: Ping Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.2060	39.69	11.96	51.65	63.37	-11.72	QP	
2	*	0.2060	31.73	11.96	43.69	53.37	-9.68	AVG	
3		3.0460	23.52	10.05	33.57	56.00	-22.43	QP	
4		3.1500	17.75	10.15	27.90	46.00	-18.10	AVG	
5		3.8620	23.11	10.86	33.97	56.00	-22.03	QP	
6		3.8620	17.25	10.86	28.11	46.00	-17.89	AVG	
7		4.7660	21.01	11.77	32.78	56.00	-23.22	QР	
8		4.7740	12.51	11.77	24.28	46.00	-21.72	AVG	
9		5.5900	20.05	11.65	31.70	60.00	-28.30	QP	
10		5.6860	13.12	11.59	24.71	50.00	-25.29	AVG	
11		19.8060	31.73	9.00	40.73	60.00	-19.27	QP	
12		20.0100	20.46	9.00	29.46	50.00	-20.54	AVG	

^{*:}Maximum data x:Over limit !:over margin

Engineer Signature: Robert

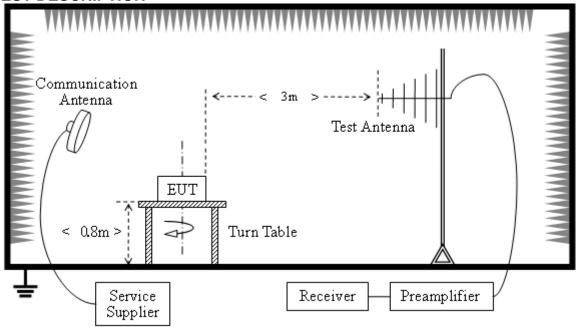
7. RADIATED EMISSION TEST 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

7.2 TEST DESCRIPTION



- (1) The EUT was palced on a turntable with 0.8 meter above ground.
- (2) The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- (3) The table was rotated 360 degrees to determine the position of the highest radiation.
- (4) The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- (5) For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1m to 4m) and turntable(from 0 degree to 360 degrees) to find the maximum reading.
- (6) Set the test-receiver system to Peak Detect Function and specified bandwidth with maximum hold mode.
- (7) If the emission level of the EUT in peak mode was 3dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- (8) Emission level(dBuV/m)=20 log Emission level(uv/m).
- (9) Corrected reading: Antenna Factor + cable loss + read level Preamp Factor = level

7.3 TEST RESULT

Preliminary Radiated Emission Test									
Frequency Range Investigated 30 MHz TO 1000 MHz									
Mode of operation	Date	Report No.	Data#	Worst Mode					
Ping	2014-09-19	MTE/SAL/F14101308	ENW02B	\boxtimes					

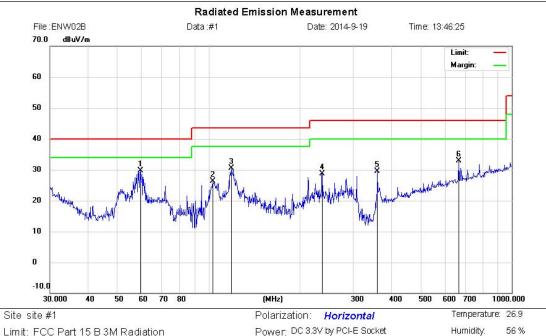
Note:

The test modes were carried out for all operation modes, The worst data was shown as the follow.

Below 1GHz



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax: 0755-86170310



Limit: FCC Part 15 B 3M Radiation

Power: DC 3.3V by PCI-E Socket

EUT: PCI-Express Dual Gigabit Ethernet Controller Card

Distance:3m

56 %

M/N: ENW02B Mode: Ping Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	59.6493	18.95	10.78	29.73	40.00	-10.27	QP			
2		103.0799	12.26	14.09	26.35	43.50	-17.15	QP			
3		119.0179	13.10	17.36	30.46	43.50	-13.04	QP			
4		237.4759	11.72	17.02	28.74	46.00	-17.26	QP			
5		360.4476	11.25	18.30	29.55	46.00	-16.45	QP			
6		668.1422	8.44	24.44	32.88	46.00	-13.12	QP			

Engineer Signature:

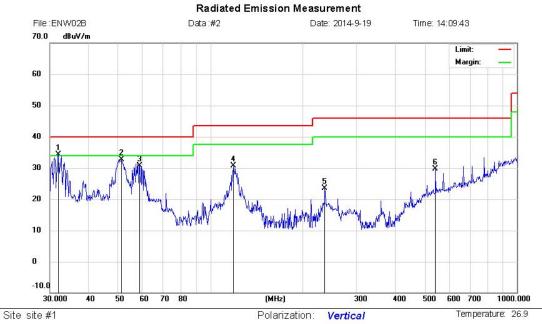
Robert

^{*:}Maximum data x:Over limit !:over margin



 $\label{eq:Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong\ \mbox{,} China$

Tel: 0755-86170306 Fax: 0755-86170310



Limit: FCC Part 15 B 3M Radiation

Power: DC 3.3V by PCI-E Socket

Humidity: 56 %

EUT: PCI-Express Dual Gigabit Ethemet Controller Card

Distance:3m

M/N: ENW02B Mode: Ping Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	31.9545	12.48	21.79	34.27	40.00	-5.73	QP			
2	51.4807	22.40	10.38	32.78	40.00	-7.22	QP			
3	58.8185	19.99	10.74	30.73	40.00	-9.27	QP			
4 1	19.0179	13.29	17.36	30.65	43.50	-12.85	QP			
5 2	36.6447	6.62	16.97	23.59	46.00	-22.41	QP			
6 5	41.3725	7.39	22.24	29.63	46.00	-16.37	QP			

Engineer Signature:

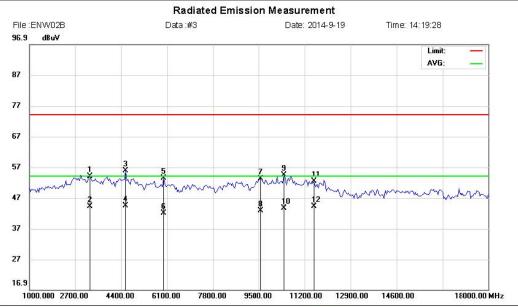
Robert

^{*:}Maximum data x:Over limit !:over margin

Above 1GHz



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax: 0755-86170310



Site site #1 Polarization: Horizontal Temperature: 26.8

Limit: FCC 1000M-18000M PEAK Power: DC 3.3V by PCI-E Socket Humidity. 55%

EUT: PCI-Express Dual Gigabit Ethemet Controller Card

M/N: ENW02B Mode: Ping Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV	dBu∨	dB	Detector	cm	degree	Comment
1		3252.500	46.00	7.92	53.92	74.00	-20.08	peak			
2		3252.500	36.26	7.92	44.18	54.00	-9.82	AVG			
3		4570.000	46.63	9.19	55.82	74.00	-18.18	peak			
4	*	4570.000	35.18	9.19	44.37	54.00	-9.63	AVG			
5		5972.500	42.98	10.37	53.35	74.00	-20.65	peak			
6		5972.500	31.68	10.37	42.05	54.00	-11.95	AVG			
7		9585.000	35.67	17.45	53.12	74.00	-20.88	peak			
8		9585.000	25.41	17.45	42.86	54.00	-11.14	AVG			
9		10435.00	35.87	18.47	54.34	74.00	-19.66	peak			
10		10435.00	25.14	18.47	43.61	54.00	-10.39	AVG			
11		11540.00	35.19	17.20	52.39	74.00	-21.61	peak			
12		11540.00	26.98	17.20	44.18	54.00	-9.82	AVG			

^{*:}Maximum data x:Over limit !:over margin

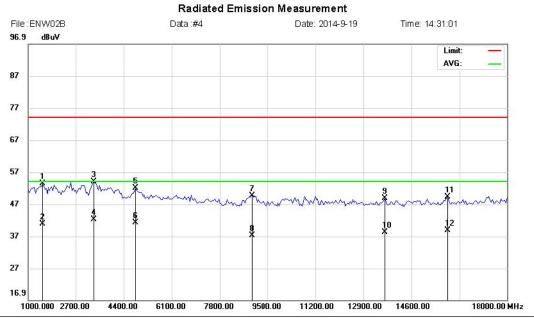
Engineer Signature: Robert

Distance:3m



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Temperature: 26.7 Site site #1 Polarization: Vertical Power: DC 3.3V by PCI-E Socket Limit: FCC 1000M-18000M PEAK Humidity: 54 %

EUT: PCI-Express Dual Gigabit Ethemet Controller Card

Distance:3m

M/N: ENW02B Mode: Ping Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBu√	dBu∨	dB	Detector	cm	degree	Comment
1		1510.000	47.82	5.64	53.46	74.00	-20.54	peak			
2		1510.000	35.26	5.64	40.90	54.00	-13.10	AVG			
3		3337.500	46.26	7.67	53.93	74.00	-20.07	peak			
4	* :	3337.500	34.59	7.67	42.26	54.00	-11.74	AVG			
5		4825.000	42.39	9.69	52.08	74.00	-21.92	peak			
6		4825.000	31.54	9.69	41.23	54.00	-12.77	AVG			
7		8947.500	35.67	13.88	49.55	74.00	-24.45	peak			
8	:	8947.500	23.39	13.88	37.27	54.00	-16.73	AVG			
9		13665.00	29.74	18.99	48.73	74.00	-25.27	peak			
10		13665.00	19.15	18.99	38.14	54.00	-15.86	AVG			
11		15875.00	26.05	23.24	49.29	74.00	-24.71	peak			
12		15875.00	15.49	23.24	38.73	54.00	-15.27	AVG			

^{*:}Maximum data x:Over limit ::over margin

Robert

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

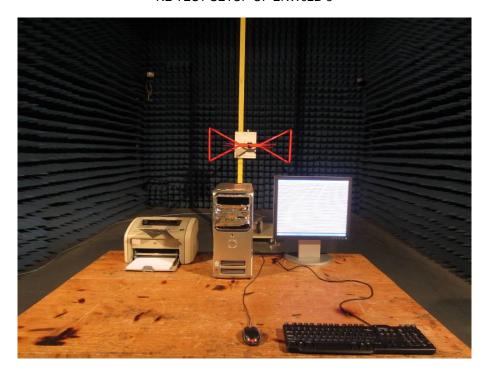
CE TEST SETUP OF ENW02B-1



CE TEST SETUP OF ENW02B-2



RE TEST SETUP OF ENW02B-3



RE TEST SETUP OF ENW02B-4

