

### CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

## **FCC TEST REPORT**

TEST REPORT NUMBER: CGZ3110526-00332-E



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.







	TEST REPORT FOR FCC
	47 CFR PART 15 OCT, 2009
	Radio frequency devices
Report Reference No:	CGZ3110526-00332-E
Date of issue:	17 June 2011
Testing Laboratory Name:	CENTRE OF TESTING SERVICE CO., LTD.
Address:	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure:	Full application of Harmonised standards ■
	Partial application of Harmonised standards $\square$
	Other standard testing method $\square$
Applicant's name:	Datel Design & Development, Inc
Address:	33 N. Garden Avenue, Suite 900, Clearwater, FL 33755
Test specification:	
Standard:	47 CFR PART 15 OCT, 2009
Test Report Form No:	CTSEMC-1.0
TRF Originator:	CENTRE OF TESTING SERVICE CO., LTD.
Master TRF:	Dated 2009-01
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Test item description. ...... Wired Controller V2 for XBOX360

Trade Mark .....: DATEL

Manufacturer ...... DATEL DIRECT LIMITED

Model/Type reference ...... AS000172

Ratings ...... DC 5V By XBOX 360 Supply (USB)

Result ...... Positive

Compiled by:

Supervised by:

Approved by:

Violet Lee / File administrators

Tom Xiao / Technique principal

Vincent yao / Manager

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### FCC -- TEST REPORT

Test Report No. : CGZ3110526-00332-E 

17 June 2011
Date of issue

Type / Model	AS000172
EUT	Wired Controller V2 for XBOX360
Applicant	Datel Design & Development, Inc
Address	33 N. Garden Avenue, Suite 900, Clearwater, FL 33755
Telephone	+1-7274310651
Fax	+1-7274310652
Contact	Kenneth Tarolla
Manufacturer	DATEL DIRECT LIMITED
Address	STAFFORD ROAD, STONE, STAFFORDSHIRE, UK, ST15, 0DG
Telephone	1
Fax	1
Contact	Emma Murray
Test report holder	Datel Design & Development, Inc
Address	33 N. Garden Avenue, Suite 900, Clearwater, FL 33755
Telephone	+1-7274310651
Fax	+1-7274310652
Contact	Kenneth Tarolla

<b>Test Result</b> according to the standards on page 3:	Positive	
--	----------	--

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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#### 1 TEST STANDARDS

The tests were performed according to following standards:

47 CFR PART 15 OCT, 2009 Radio frequency devices

#### 2 SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	27 May 2011
Testing commenced on	14 June 2011
Testing concluded on	14 June 2011

#### 2.2 FINAL ASSESSMENT

The FCC requirements	nertaining to the	technical stands	ards and tester	l operation mo	ides are
	perialillio to the	i leci illicai Stariu	arus ariu testet	i obelalion mo	ues alt

fulfilled.

□ - **not** fulfilled.

The equipment under test

fulfils the FCC requirements cited on page 3.

- does not fulfil the FCC requirements cited on page 3.

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#### **EQUIPMENT UNDER TEST**

_ ~	· · · · · · · · · · · · · · · · · · ·		
3.1 Po	ower supply system t	ıtilised	
	Power supply voltage:	<ul><li>□ AC 230V/50 Hz</li><li>■ DC 5V By XBOX360 Supply</li></ul>	□ 115V/60Hz □ 24 V DC
3.2 Sh	ort description of the	e Equipment under Test (EU	IT)
	Number of tested sample Serial number: Prototyp		
3.3 EU	JT operation mode		
	The equipment under te	st was operated during the measure	ement under the following conditions
	<ul> <li>□ - Standby</li> <li>□ - Test programme (H</li> <li>□ - Test programme (co</li> <li>□ - Operating mode 250</li> <li>□ - Operating mode 150</li> <li>□ - Ignition on , Motor o</li> <li>□ - Speed 50 km/h</li> </ul>	olour bar) 00 U/min. (1 cylinder) 00 U/min. (> 1 cylinder)	
	■ - Test program (custo	mer specific)	
	Operating Mode:	ON	
	Emissions tests: Accord	ing to 47 CFR PART 15 searching f	or the highest disturbance.
3.4 EU	JT configuration		
	(The CDE filled by the co	anliagnt can be viewed at the test la	haratam.

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

Not Applicable

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#### 4 TEST ENVIRONMENT

#### 4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

#### 4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009.

#### FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD., EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 21, 2009.

#### 4.3 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

#### 4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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#### 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Dadiation emission (2m)	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)

<sup>(1)</sup>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.7 Test Description

#### 4.7.1 Description of Standards and Results

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	47 CFR PART 15 OCT, 2009 ANSI C63.4-2009	PASS Class B
Radiated Emission Test	47 CFR PART 15 OCT, 2009 ANSI C63.4-2009	PASS Class B

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#### 5 TEST CONDITIONS AND RESULTS

#### **5.1 Power Line Conducted Emission Test**

For test instruments and accessories used see section 6 part 6.2.

#### 5.1.1 Description of the test location

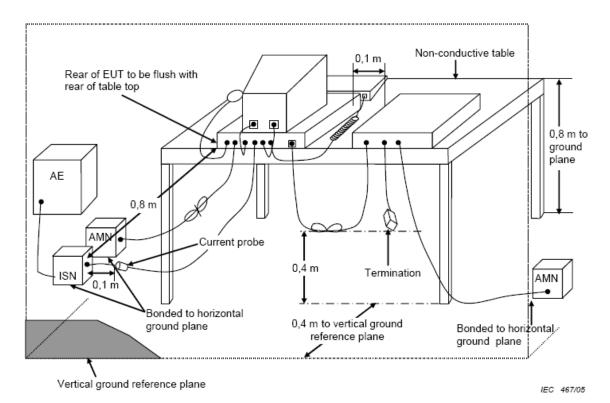
Test location : Shielding Room

#### 5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

#### 5.1.2.2 Block Diagram of Test Setup



#### 5.1.3 Limits of disturbance (Class B)

		Maximum RF L	ine Voltage
Freque	encv	Quasi-Peak Level	Average Level
1.094	5.1.5y	dB(μV)	dB(μV)
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz	~ 5MHz	56	46
5MHz	~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

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#### 5.1.4 Test result

The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.15kHz - 30 MHz
Min. limit margin	>1.4 at 0.15MHz - 30 MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

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#### 5.2.5 Test protocol

Test Mode:	Normal	Result:	■ - passed
Test point:	L		□ - not passed
Frequency range:	0.15~30MHz		

EUT	Wired Controller V2 for XBOX360		
Operating Condition	DC 5V By XBOX360 Supply		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Peason		
MODEL NO.	AS000172		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	9.99	33.02	43.01	65.16	-22.15	QP
2	0.1660	9.99	29.13	39.12	55.16	-16.04	AVG
3	0.4980	10.01	34.01	44.02	56.03	-12.01	QP
4	0.4980	10.01	26.41	36.42	46.03	-9.61	AVG
5	1.0460	10.12	42.36	52.48	56.00	-3.52	QP
6	1.0460	10.12	32.12	42.24	46.00	-3.76	AVG
7	1.3020	10.11	42.03	52.14	56.00	-3.86	QP
8	1.3020	10.11	32.13	42.24	46.00	-3.76	AVG
9	3.8700	10.07	37.47	47.54	56.00	-8.46	QP
10	3.8700	10.07	26.88	36.95	46.00	-9.05	AVG
11	5.9980	10.12	40.13	50.25	60.00	-9.75	QP
12	5.9980	10.12	28.46	38.58	50.00	-11.42	AVG

Note:Level=Reading+Facytor. Margin= Level-Limit

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# CT5

#### **CENTRE OF TESTING SERVICE**

Test Mode:	Normal	Result:	■ - passed
Test point:	N		□ - not passed
Frequency range:	0.15~30MHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2780	9.99	34.46	44.45	60.88	-16.43	QP
2	0.2780	9.99	29.10	39.09	50.88	-11.79	AVG
3	0.7780	10.11	37.30	47.41	56.00	-8.59	QP
4	0.7780	10.11	30.81	40.92	46.00	-5.08	AVG
5	1.2980	10.11	42.03	52.14	56.00	-3.86	QP
6	1.2980	10.11	32.46	42.57	46.00	-3.43	AVG
7	2.3340	10.06	42.33	52.39	56.00	-3.61	QP
8	2.3340	10.06	32.54	42.60	46.00	-3.40	AVG
9	4.6660	10.10	42.65	52.75	56.00	-3.25	QP
10	4.6660	10.10	32.32	42.42	46.00	-3.58	AVG
11	23.4860	10.43	23.30	33.73	60.00	-26.27	QP
12	23.4860	10.43	16.84	27.27	50.00	-22.73	AVG

Note:Level=Reading+Facytor. Margin= Level- Limit.

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#### **CENTRE OF TESTING SERVICE**





#### 5.2 Radiated disturbance (Electric field)

For test instruments and accessories used see section 7 part 7.1.

#### 5.2.1 Description of the test location

Test location : Semi-Anechoic chamber

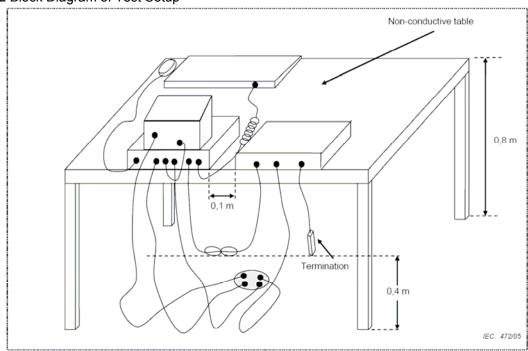
Test disturbance: 3 Meter

#### 5.2.2 Description of the test set-up

5.2.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

#### 5.2.2.2 Block Diagram of Test Setup



#### 5.2.3 Limits of disturbance (FCC Class B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBµV/m)
30 ~ 88	3	40
88 ~ 216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

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#### **CENTRE OF TESTING SERVICE**





#### 5.2.4 Test result

The requirements are	Fulfilled
Band width	120kHz
Frequency range	30 MHz - 1000 MHz
Min. limit margin	>1.49 dB at 30MHz - 1000 MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

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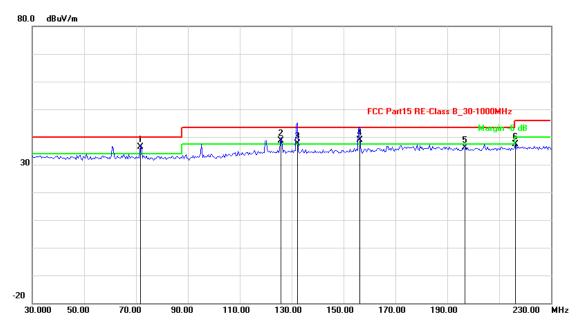




#### 5.2.5 Test protocol

Test point	Horizontal	Result:	■ - passed
Operation mode	Normal		☐ - not passed
Remarks:			

EUT	Wired Controller V2 for XBOX360		
Operating Condition	DC 5V By XBOX360 Supply		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Peason		
MODEL NO.	AS000172		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	71.6834	5.08	31.21	36.29	40.00	-3.71	QP
2	125.7916	6.56	32.02	38.58	43.50	-4.92	QP
3	132.2044	6.56	31.12	37.68	43.50	-5.82	QP
4	156.2525	6.54	32.45	38.99	43.50	-4.51	QP
5	196.7335	7.37	28.84	36.21	43.50	-7.29	QP
6	216.3727	7.71	29.64	37.35	46.00	-8.65	QP

Note:Level=Reading+Facytor. Margin=Limit-Level.

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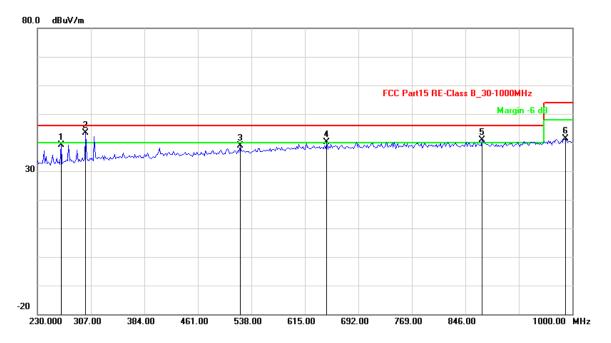
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	263.9479	5.82	33.20	39.02	46.00	-6.98	QP
2	299.4389	6.34	35.94	42.28	46.00	-3.72	QP
3	521.6433	8.64	30.25	38.89	46.00	-7.11	QP
4	646.6332	9.75	30.27	40.02	46.00	-5.98	QP
5	870.3808	10.45	30.33	40.78	46.00	-5.22	QP
6	990.7415	10.50	30.82	41.32	54.00	-12.68	QP

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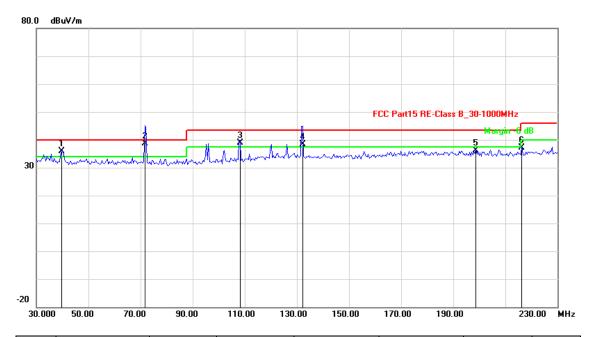






Test point Operation mode	Vertical Normal	■ - passed □ - not passed
Remarks:		·

EUT	Wired Controller V2 for XBOX360		
Operating Condition	DC 5V		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Peason		
MODEL NO.	AS000172		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.6192	5.73	30.23	35.96	40.00	-4.04	QP
2	71.6834	5.08	32.43	37.51	40.00	-2.49	QP
3	108.1563	5.64	33.19	38.83	43.50	-4.67	QP
4	132.2044	6.56	31.94	38.50	43.50	-5.00	QP
5	198.7375	7.36	28.75	36.11	43.50	-7.39	QP
6	216.3727	7.71	29.54	37.25	46.00	-8.75	QP

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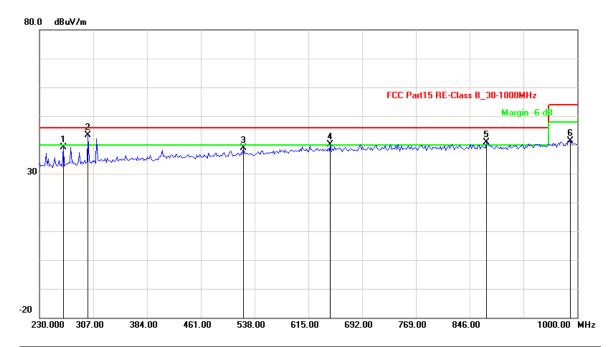
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#### **CENTRE OF TESTING SERVICE**







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	263.9479	5.82	33.20	39.02	46.00	-6.98	QP
2	299.4389	6.34	35.94	42.28	46.00	-3.72	QP
3	521.6433	8.64	30.25	38.89	46.00	-7.11	QP
4	646.6332	9.75	30.27	40.02	46.00	-5.98	QP
5	870.3808	10.45	30.33	40.78	46.00	-5.22	QP
6	990.7415	10.50	30.82	41.32	54.00	-12.68	QP

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#### 6 DEVIATION TO TEST SPECIFICATIONS

[NONE]

#### **Normative references**

- 1. 47 CFR PART 15 OCT, 2009 Radio Frequency Devices
- 2. ANSI C 63.4:2009

American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

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#### 7 USED TEST EQUIPMENT

7.1

Radiated disturbance (Electric field)						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12	
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12	
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12	
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12	
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2010/12	

7.2

Conducted Disturbance							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2010/12		
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2010/12		
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2010/12		
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2010/12		

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#### **CENTRE OF TESTING SERVICE**





### 8 Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: Wired Controller V2 for XBOX360 Model name: AS000172

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