

FCC ID: ZD3iR301-U

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1 Cover Page

TEST REPORT

Application No.:	SHEM1207001046IT			
Applicant:	EITIAN Technologies Co., Ltd.			
Manufacturer:	FEITIAN Technologies Co., Ltd.			
Factory:	FEITIAN Technologies Co., Ltd.			
FCC ID:	ZD3iR301-U			
Product Name:	USB CardReader			
Model No.(EUT):	iR301-U			
Standards:	FCC Part15 :2011			
Date of Receipt:	July 27, 2012			
Date of Test:	August 7, 2012 to October 12, 2012			
Date of Issue:	October 15, 2012			
Test Result :	Pass*			

* In the configuration tested, the EUT (Equipment under test) complied with the standards specified above.

p. Voi2

Tony Wu E&E Section Manager SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
00		Oct. 15,2012	Neil Zhang	Original		

Authorized for issue by:		
Engineer	Neil Zhang	Noll Thang
	Print Name	Date(Oct. 15, 2012)
Clerk		Noll Thang
	Neil Zhang	
	Print Name	Date(Oct. 15, 2012)
Reviewer		Timber
	Jim Xu	
	Print Name	Date(Oct. 15, 2012)



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3 Test Summary

ELECTROMAGNETIC INTERFERENCE (EMI)						
Test	Test Requirement	Test Method	Class / Severity	Result		
Conducted Emission (150KHz to 30MHz)	FCC Part15:2011	ANSI C63.4: 2009	Class B	PASS		
Radiated Emission, (30MHz to 1GHz)	FCC Part15:2011	ANSI C63.4: 2009	Class B ♀	PASS		
Radiated Emission above 1 GHz	FCC Part15:2011	ANSI C63.4: 2009	Class B	N/A		
9 If the highest frequency of the internal sources of the EUT is less than 108MHz, the measurement shall only be made up						
to 1GHz.						



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5 General Information

5.1 Client Information

Applicant:	FEITIAN Technologies Co., Ltd.		
Address of Applicant:	Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road Haidian District,		
	Beijing, P.R.China		
Manufacturer:	FEITIAN Technologies Co., Ltd.		
Address of Manufacturer:	Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road Haidian District,		
	Beijing, P.R.China		
Factory:	FEITIAN Technologies Co., Ltd.		
Address of Factory:	Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road Haidian District,		
	Beijing, P.R.China		

5.2 General Description of E.U.T.

Product Name:	USB CardReader
Model No.(EUT):	iR301-U
Operating frequency:	48MHz (the Highest working frequency)

5.3 Details of E.U.T.

Power Supply:	USB power DC 5V
Power Cord:	About 100cm
Adapter Supply:	N/A
Functions/Modes:	Running the LoopBack2010.exe installed at the PC to keeping the EUT reading the information from the IC card which plug into the EUT.

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5.4 Description of Support Units

Supporting equipments :

Description	Manufacturer	Model No.	Serial No.	Data Cable	Power Cable	
Personal Computer	DELL	OPTIPLEX 755	E191 (reference no.)	N/A	1.5m	
17" LCD	Lenovo	9227-AE1	VENCW23	VGA	1.5m	
Universal Programmer	Qian LongSheng	QL-2006	201105116086	СОМ	1.5m	
Keyboard	Lenovo	KB1021	0000319	USB ²⁾	N/A	
Mouse	Lenovo	MO28UOL	4401282 081	USB ³⁾	N/A	
FT Java card with Dual-Interface	FEITIAN	FT-JAVA	Q-2630	N/A	N/A-	
Note: For the cable details please refer to below table.						

Cables:

#	Туре	Length, m	Shield	Metallic hood	Ferrite
1	VGA	1.8	Yes	No	Yes
2	СОМ	1.5	Yes	No	No
3	USB ¹⁾	1.5	Yes	No	Yes
4	USB ²⁾	1.8	Yes	No	No
5	USB ³⁾	1.8	Yes	No	No

Software:

Description	Manufacturer	Software name	Version no.
USB Driver	Microsoft	USB Input Device Driver	6.1.7601.17514
USB Driver	Microsoft	USB Mass Storage Device Driver	5.1.2600.0
LoopBack	Alcor Micor, Corp	LoopBack2010	1.1.0.4

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

None.

5.7 Modification/Retest Record

None.

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5.8 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612. Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.

5.9 Test Facility

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

• FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: **R-3868** and **C-4336** respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

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6 Equipment Used during Test

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2012-04-13	2013-04-12
2	Line impedance stabilization network	SCHWARZBE CK	NSLK812 7	8127-490	2012-03-15	2013-03-14
3	Line impedance stabilization network	ETS	3816/2	00034161	2012-03-15	2013-03-14

Radiated Emission

ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2012-06-02	2013-06-01
2	Antenna	SCHWARZBE CK	VULB916 8	9168-313	2012-03-15	2013-03-14
3	CONTROLLER	INNCO	CO200	474	/	/
4	Antenna	SCHWARZBE CK	BBHA912 0D	9120D-67 9	2012-03-15	2013-03-14
5	Antenna	SCHWARZBE CK	BBHA917 0	9170-373	2012-03-15	2013-03-14
6	Low nosie amplifier		TESEQ	71033	2012-03-15	2013-03-14

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General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Digital pressure meter	YONGZHI	DYM3-01	101012	2012-01-16	2013-01-14
2	Digital Multimeter	FLUKE	17B	10560713	2012-08-24	2013-08-22
3	Temperature& humidity recorder	ShangHai weather meter work	ZJ 1-2B	0804081 0802150 0805126	2012-07-25	2013-07-23



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7 Electromagnetic Interference Test Results

7.1 Conducted Emissions on Mains Terminals, 150 kHz to 30 MHz

Test Requirement:	FCC Part15 :2011
Test Method:	ANSI C63.4: 2009
Test Date:	October 12, 2012
Test Voltage:	AC 120V 60Hz
Frequency Range:	150 KHz to 30 MHz
Class / Severity:	Class B
Detector:	Peak for pre-scan (9 kHz Resolution Bandwidth from 150 KHz to 30 MHz)
Limit:	

Frequency range	Class B Limits dB (µV)						
IVITIZ	Quasi-peak	Average					
0.15 to 0.50	66 to 56	56 to 46					
0.50 to 5	56	46					
5 to 30	60 50						
Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.							

Note2: The lower limit is applicable at the transition frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:23.0 °CHumidity:56 % RHAtmospheric Pressure:100.3 kPaTest mode:Reading card mode

Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Please see the attached Quasi-peak and Average test results.

Level = Read Level + LISN/ISN Factor + Cable Loss.



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7.1.2 Test Setup and Procedure



- 1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT was connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment was at least 0.8 m from the LISN.

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7.1.3 Measurement Data

6

7

8

9

10

11 12 1.50

2.65

2.65

4.77

4.77

11.14

11.14

36.78

30.85

37.79

23.42

33.46

18.45

28.81

0.10

0.12

0.12

0.19

0.19

0.10

0.10



0.25

0.30

0.30

0.30

0.30

0.60

0.60

37.13

31.27

38.21

23.91

33.95

19.15

29.51

56.00 -18.87 QP

56.00 -17.79 OP

56.00 -22.05 OP

60.00 -30.49 QP

46.00 -14.73 Average

46.00 -22.09 Average

50.00 - 30.85 Average



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7.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	FCC Part15 :2011
Test Method:	ANSI C63.4: 2009
Test Date:	October 12,2012
Test Voltage:	AC 120V 60Hz
Frequency Range:	30 MHz to 1 GHz
Measurement Distance:	3m
Class:	Class B
Detector:	Peak for pre-scan (120 kHz resolution bandwidth)
Limit:	

For 3m

Frequency range MHz	Quasi-peak limits dB (μV/m)		
30 to 88	40		
88 to 216	43.5		
216 to 960	46		
Above 960	54		
Note: At transitional frequencies the lower limit a	pplies.		

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24.5 °CHumidity:59 % RHAtmospheric Pressure:100.9 kPaTest mode:Reading Card mode

Pre-scan was performed with peak detected on all ports, Quasi-peak measurements was performed at the frequencies at which maximum peak emission level were detected.

Please see the attached Quasi-peak test results.

For radiated emission: Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.



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7.2.2 Test Setup and Procedure



- 1. The radiated emissions test was conducted in a semi-anechoic chamber.
- 2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum signature data plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement, the physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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7.2.3 Measurement Data

Vertical:



ltem	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	40.70	34.51	13.27	24.70	0.57	23.65	40.00	-16.35	QP
2	61.13	40.34	12.04	24.70	0.74	28.42	40.00	-11.58	QP
3	143.83	36.01	12.33	24.70	1.25	24.89	43.50	-18.61	QP
4	238.31	35.02	10.21	24.52	1.68	22.39	46.00	-23.61	QP
5	360.45	36.31	13.89	24.46	2.16	27.90	46.00	-18.10	QP
6	952.09	25.63	23.92	23.79	3.80	29.56	46.00	-16.44	QP

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

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Horizontal:



ltem	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	41.42	31.35	13.24	24.70	0.57	20.46	40.00	-19.54	QP
2	61.13	33.70	12.04	24.70	0.74	21.78	40.00	-18.22	QP
3	143.83	35.40	12.33	24.70	1.25	24.28	43.50	-19.22	QP
4	250.30	38.10	10.51	24.50	1.73	25.84	46.00	-20.16	QP
5	360.45	38.18	13.89	24.46	2.16	29.77	46.00	-16.23	QP
6	945.44	24.91	23.81	23.80	3.79	28.71	46.00	-17.29	QP

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

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8 Photographs (Test Setup For the EUT)

8.1 Conducted Emissions on Mains Terminals Test Setup



8.2 Radiated Emission Test Setup



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9 EUT Constructional Details

9.1 Exterior of EUT



USB Cable



FT Java card with Dual-Interface

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Top View



Rear View



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Left View



Right View

SGS

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Front View



Back View

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9.2 Interior of EUT





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