



FCC CFR47 PART 15 DIGITAL DEVICE

TEST REPORT

FOR

7 PORTS USB HUB

MODEL: F5U010

FCC ID: ORMF5U010

REPORT NUMBER: 00E8314

ISSUE DATE: JUNE 5, 2000

Prepared for

BELKIN COMPONENTS

501 WEST WALNUT STREET, COMPTON, CA90220, USA

Prepared by

COMPLIANCE ENGINEERING SERVICES, INC.

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NVLAP[®]

LAB CODE: SL2-IN-E-0005



**FCC, VCCI, CISPR, CE
UL, CSA, TÜV, VDE**

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BUREAU OF STANDARDS, METROLOGY AND INSPECTION

MINISTRY OF ECONOMIC AFFAIRS, REPUBLIC OF CHINA

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To: Compliance Engineering Services, INC.

IN REPLY REFER TO
89-3-3000061

No. 199 Chung Sheng Road, Hsin Tien City,
Taipei Hsien, Taiwan, R.O.C.

This Designation Document confirms that your subject measurement facility has been validated according to the **ISO/IEC Guide 25-1990** and found to be in compliance with the requirements of "Operation Guidelines of the Approval and Management of Designated EMC Laboratories."

The description of your facility has, therefore, been placed on file and the name of your organization added to the Bureau's list of facilities whose measurement data and test reports will be accepted as a basis for attesting conformity to CNS13438-1997 / CISPR22-1993, CNS13783-1-1996/ CISPR14 - 1993, CNS13439-1997 / CISPR13-1990 for Information Technology Equipment, household appliances / tools, broadcast receivers and related equipments.

It is located at: <http://www.bsmi.gov.tw>

Please reference the file numbers below in the body of all test reports containing measurements made on the corresponding facility.

For your **EMI Testing Lab**, use reference "**SL2-IN-E-0005, SL2-R1-E-0005, SL2-R2-E-0005, SL2-A1-E-0005**"

Note that this filing must be updated for any changes made to the documentation and / or facility and whenever major modifications to your documentation or major construction or repairs to your facility are completed, re-submission of the related information or the site attenuation characteristics will be required within 2 weeks.

The Designation is valid through January 10, 2003.

Taipei, February 3, 2000
For BSMI, MOEA

Chen Tso-Chen
Director General

From 2000



Belkin Components

May 30, 2000

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21045

To Whom It May Concern:

We, the undersigned, hereby authorize as our agent

Agent

Compliance Engineering Services, Inc.
No. 188, Chung Sheng Road
Hsin Tien City, Taipei
Taiwan, R.O.C.

To act on our behalf in all matters relating to application for equipment authorization, including signing of all documents relating to authorization of the part(s) listed below. Any and all acts carried out by Compliance Engineering Services, Inc. in our behalf on the matters listed herein, shall have the same effect as acts of our own.

Product(s):

F5U010

USB Express Bus 7 Port Hub

We, the undersigned, hereby certify that we are not subject to denial of Federal benefits, including FCC benefits, pursuant to Section 8301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 855 (a).

This authorization is valid until further written notice from the applicant.

Sincerely,

A handwritten signature in black ink, appearing to read "Gene A. Byrd".

Gene A. Byrd
Document Control Coordinator
Belkin Components

Contact Office:

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1. VERIFICATION OF COMPLIANCE



COMPANY NAME: BELKIN COMPONENTS
501 WEST WALNUT STREET.
COMPTON, CA90220, U. S. A.

CONTACT PERSON: STEVEN HSU / TECHNOLOGY DEVELOPMENT MANAGER

TELEPHONE NO: (310)898-1100

MODEL NO/NAME: FSU010

SERIAL NO: N/A

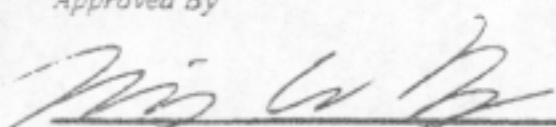
DATE TESTED: MAY 19, 2000 AND MAY 23, 2000

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)
MEASUREMENT DISTANCE:	() 3 METER (x) 10 METER
TECHNICAL LIMIT:	CLASS B
FCC RULES:	PART 15
MEASUREMENT PROCEDURE	ANSI C63.4:92 / EN55022
EQUIPMENT AUTHORIZATION PROCEDURE	CERTIFICATION
MODIFICATION MADE ON EUT	☐ YES ☒ NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	☐ YES (refer to section 21 for comments) ☒ NO
RADIATED EMISSION TEST RESULT	-3.72 dB @ 268.520 MHz / VERTICAL
CONDUCTED EMISSION TEST RESULT	-12.54 dB @ 0.497 MHz / L2

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By

Acknowledged By


MIKE C.I. KUO / VICE PRESIDENT
COMPLIANCE CERTIFICATION SERVICES

Steven Hsu / Technology Development Manager
Belkin Components

2. PRODUCT DESCRIPTION

CHASSIS TYPE	PLASTIC
LIST OF EACH OSC. OR XTAL. FREQ. (FREQ.>=1 MHz)	Y1 = 6.0 MHz
CHIPSET BRAND AND PART NO.	TUSB 2077A
NUMBER OF PCB LAYERS	2 LAYERS
BOARD REVISION NO.	VER 5.2
POWER REQUIREMENTS	DC 6V
AC ADAPTOR/NAME/MODEL/S.N.	JYE-57-060 4000 MKD-064000GS
NO. OF EXTERNAL I/O CONNECTORS	8

3. TESTED SYSTEM DETAILS

The Model names for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

External Peripheral Devices

Device Type	Manufacturer	Model Number	Serial No.	FCC ID / DoC
USB MOUSE x2	LOGITECH	M-BB48	ME-17	DoC
MONITOR	SAMSUNG	550b	N/A	DoC
KEYBOARD	ACER	6311-TW4C	N/A	DoC
MOUSE	LOGITECH	M-S34	LZE01308115	DEL211029
MODEM	DISCOVERY	2496CF	MD-04	I972496AF
PRINTER	MATSUSHITA	KX-P1080i	PRN-01	ACJ5Z6KX-P1080I
USB JOYSTICK	Microsoft	SideWinder Precision Pro	JOY-12	DOC
HOST COMPUTER	VIVA	VIVA 686-350	HS-12	DOC
MOUSE	LOGITECH	M-S34	ME-14	DZL211029

4. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5. ACCREDITATION AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code:SL2-IN-E-0005 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (reference no: 31040/SIT(1300F2))

6. MEASUREMENT INSTRUMENTATION

Radiated emissions were measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, liner horn. EMI receivers were used for line conducted readings, spectrum analyzers with pre-selectors and quasi-peak detectors were used to perform radiated measurements. Receiving equipment (i.e., receiver, analyzer, quasi-peak adapter, pre-selector) and LISNs conform to CISPR specification for "Radio Interference Measuring Apparatus and Measurement Methods," Publication 16.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

7. MEASURING INSTRUMENT CALIBRATION

The measuring equipment which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

8. UNITS OF MEASUREMENT

Measurements of radiated interference are reported in terms of dB(uV/m) at a specified distance. The indicated readings on the spectrum analyzer were converted to dB(uV/m) by use of appropriate conversion factors. Measurements of conducted interference are reported in terms of dB(uV).

The field strength is calculated by adding the Antenna Factor and Cable Factors, then by subtracting the Amplifier Gain from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where FS = Field Strength
RA = Receiver Amplitude
AF = Antenna Factor
CF = Cable Attenuation Factor
AG = Amplifier Gain

Assume a receiver reading of 52.5 dBuV is obtained. The Antenna Factor of 7.4dB/m and a Cable Factor of 1.1dB is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/m. The 32 dBuV/m value was mathematically converted to its corresponding level in uV/m.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dBuV/m}$$

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(32 \text{ dBuV/m})/20] = 39.8 \text{ uV/m}$$

9. ANTENNAS

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 10 meters from the leading edge of the turn table.

10. CLASSIFICATION OF DIGITAL DEVICE

Class A includes digital devices that are marketed for use in commercial, industrial or business environments, excluding devices which are marketed for use by the general public or are intended to be used in the home.

Class B includes digital devices that are marketed for use in residential environments, notwithstanding use in commercial, business and industrial environments.

Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as Class B device, and in fact is encouraged to do so provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B digital device, regardless of its intended use.

11. RADIATED EMISSION LIMITS

FCC PART 15 CLASS B

MEASURING DISTANCE OF 3 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

FCC CLASS B ALTERNATIVE DISTANCE (CISPR 22:1993)

MEASURING DISTANCE OF 10 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	30	29.5
88-216	45	33.0
216-960	60	35.6
960-1000	150	43.5
ABOVE 1000	150	43.5

Note: Limits extrapolated 20dB/decade

FCC PART 15 CLASS A

MEASURING DISTANCE OF 10 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	90	39.1
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

12. CONDUCTED EMISSION LIMITS

CLASS B

FREQUENCY RANGE	FIELD STRENGTH (Microvolts)	FIELD STRENGTH (dBuV)
450kHz-30MHz	250	48

CLASS A

FREQUENCY RANGE	FIELD STRENGTH (Microvolts)	FIELD STRENGTH (dBuV)
450kHz-1.705MHz	1000	60
1.705MHz - 30MHz	3000	69.54

13. CONDUCTED EMISSION TEST PROCEDURE

The EUT is located so that the distance between the boundary of the EUT and the closest surface to the LISN is 0.8m.

EUT test configuration is according to Section 7 of ANSI C63.4/1992.

Conducted disturbance shall be measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency 0.450 - 30 MHz shall be investigated.

Set the EMI receiver to PEAK detector setting and sweep continuously over the frequency range to be investigated. Set resolution bandwidth to 9kHz minimum. Connect EMI receiver input cable to LINE 1 RF measurement connection on the LISN. Connect a 50ohm terminator to the unused RF connection on the LISN. For each mode of EUT operation, maximize emissions readings by manipulating cable and wire positions. Record the configuration for each EUT power cord which produces emissions closest to the limit. Repeat the same procedure for LINE 2 of each EUT power cord.

14. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is either 3 meters or 10 meters (Class B or Class A). During the test, the table is rotated 360 degrees to maximize emissions, and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

EUT test configuration is according to Section 8 of ANSI C63.4/1992.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

15. AMBIENT CONDITIONS

The ambient conditions at the time of final tests were as follows:

	Radiated Emission	Conducted Emission
Temperature	28 °C	27 °C
Humidity	64 %	64 %

16. SYSTEM TEST CONFIGURATION

The equipment under test was configured and operated in a manner which tended to maximize its emission characteristics in a typical application. Power and signal distribution, ground, interconnecting cabling and physical placement of equipment simulated the typical application and usage insofar as practicable.

SOFTWARE USED DURING THE TESTS	
Operating System	WINDOWS 98
File Name	WINEMC.EXE
Program Sequence	1. WINDOWS 98 BOOTS SYSTEM. 2. RUN WINEMCTEST.EXE TO ACTIVATE ALL PERIPHERALS AND DISPLAY "H" PATTERN ON MONITOR SCREEN.

17. EQUIPMENT MODIFICATIONS

To achieve compliance to CLASS B levels, the following change(s) were made during compliance testing:

NOT APPLICABLE

18. EUT SETUP PHOTOS



Radiated Emission Setup Photos (Worst Emission Position)



Conducted Emission Setup Photos (Worst Emission Position)

19. TEST EQUIPMENT LIST

Equipment	Manuf.	Model No.	Serial No.	Site	Cal Date	Due Date
EMI TEST DISPLAY	ROHDE & SCHWARZ	DSAI-D 804.8932.52	827832/001	D	10/99	10/00
EMI TEST RF UNIT	ROHDE & SCHWARZ	ESBI-RF/1005.4300.52	827832/003	D	10/99	10/00
AMPLIFIER	HP	8447E B	1937A1401	D	9/99	9/00
ANTENNA	EMCO	3142	1212	D	07/99	07/00
LISN	EMCO	3825/2	1842	D	1/00	1/01
LISN(EUT)	EMCO	3825/2	1435	D	1/00	1/01
CABLE	TALLEY	HELIX FSJ4-50B	D0301	D	1/00	1/01
CABLE	TIME MICROWAVE	LMR-400-2	D1001	D	1/00	1/01
SPECTRUM ANALYZER	H.P.	8568B	2928A04814	E	3/00	3/01
SPECTRUM DISPLAY	H.P.	85662A	2848A18276	E	3/00	3/01
QUASI-PEAK DETECTOR	H.P.	85650A	2811A01439	E	3/00	3/01
AMPLIFIER	H.P.	8447D B	1644A02328	E	5/00	5/01
ANTENNA	CHASE	CBL6111A	1547	E	1/00	1/01
TEST RECEIVER	ROHDE & SCHWARZ	ESHS20	840455/006	E	2/00	2/01
LISN	SOLAR	8012-50-R-24-BNC	8305114	E	7/99	7/00
LISN(EUT)	FISHER CUSTOM	FCC-LISN-50/250-25-2	107	E	7/99	7/00
CABLE	TIME MICROWAVE	LMR-400-2	E1001	E	1/00	1/01
CABLE	TALLEY	HELIX FSJ4-50B	E0301	E	1/00	1/01

20. CORRECTION FACTOR

OATS NO. E

	ANTENNA 3 METER			ANTENNA 10 METER			SITE E
FREQ (MHZ)	HORI.	VERT.	CABLE LOSS (dB)	HORI.	VERT.	CABLE LOSS (dB)	AMP GAIN (dB)
30	20.08	17.25	0.90	17.26	18.45	0.90	27.80
35	16.83	14.14	1.00	16.20	14.65	0.90	28.10
40	14.39	11.69	1.00	13.88	11.97	1.00	28.10
45	11.63	9.89	1.10	11.19	9.93	1.00	27.90
50	9.29	8.07	1.20	8.79	8.40	1.00	28.00
60	6.03	5.18	1.40	6.19	5.52	1.20	27.70
70	6.49	5.83	1.40	6.79	5.69	1.30	27.60
80	7.57	6.93	1.60	7.48	7.03	1.40	27.50
90	8.84	9.45	1.60	8.66	8.24	1.60	27.60
100	9.55	10.62	1.70	9.27	9.50	1.70	27.50
120	12.09	13.10	1.80	12.00	11.80	1.60	27.40
125	12.15	13.48	1.80	11.97	11.78	1.70	27.50
140	12.27	13.04	2.00	11.99	11.42	1.80	27.10
150	11.65	12.47	2.50	11.37	10.65	2.30	26.90
160	10.89	11.38	2.20	10.61	9.50	2.00	26.90
175	9.65	10.45	2.20	9.59	9.06	2.00	26.80
180	9.34	10.01	2.20	9.32	8.93	2.20	26.70
200	9.69	9.70	2.40	9.02	9.62	2.10	26.70
250	12.87	12.97	2.70	12.26	12.61	2.50	26.40
300	13.92	13.52	3.00	13.25	13.74	2.70	26.80
400	16.73	16.36	3.40	16.02	16.60	3.20	26.80
500	18.22	18.22	3.90	18.15	18.23	3.60	27.20
600	19.77	19.94	4.30	20.11	19.95	4.00	26.30
700	21.36	21.53	4.50	21.20	21.68	4.20	26.10
800	22.60	22.69	4.90	22.24	22.55	4.50	25.60
900	23.45	23.42	5.20	23.22	23.78	4.90	26.90
1000	24.85	24.87	5.70	24.85	24.87	5.30	26.10
1100	25.36	25.23		25.06	25.64		27.00
1200	26.41	26.01		26.00	26.08		27.50
1300	28.77	28.75		28.60	28.50		26.90
1400	27.76	27.31		27.51	27.48		
1500	29.49	29.60		29.28	28.99		
1600	29.19	28.79		28.79	28.87		
1700	30.18	29.84		30.25	30.52		
1800	33.29	32.54		32.13	32.68		
1900	33.07	32.77		32.52	32.69		
2000	32.38	32.45		31.84	32.67		

21. TEST RESULT SUMMARY

Preliminary Radiated Emission Tests were performed at the 10 meter open area test site. CCS test procedure no:CCSUE2001B and the procedure listed in ANSI C63.4 /1992 section 8.3.1.1. were used. The following preliminary tests were conducted to determine the worst mode of operation and configuration.

Preliminary Radiated Emission Test			
Frequency Range Investigated		30 MHz TO 1000 MHz	
Mode of operation	Date	Data Report No.	Worst Mode
Normal Mode	05/19/00	8314F# (02, 03)	☒

Final Radiated Emission Test was conducted by operating the worst mode as indicated above.

OATS No: E / 10 M		Data Report No. 8314F# (02, 03)		Date 05/19/00		Tested By: VINCE CHIANG	
Six Highest Radiated Emission Readings							
Frequency Range Investigated				30 MHz TO 1000 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
110.650	35.60	-12.09	23.51	30.00	-6.49	P	V
133.280	35.60	-10.92	24.58	30.00	-5.42	P	V
268.520	41.10	-7.82	33.28	37.00	-3.72	P	V
288.390	40.10	-7.50	32.60	37.00	-4.40	P	V
367.940	37.90	-5.01	32.89	37.00	-4.11	P	V
387.860	37.30	-4.37	32.93	37.00	-4.07	P	V

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(3dB)
- Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

Preliminary Conducted Emission Tests were performed according to CCS test procedure no:CCSUE2002B and ANSI C63.4/1992 section 7.2.3. The following preliminary tests were conducted to determine the worst mode of operation.

Preliminary Conducted Emission Test			
Frequency Range Investigated		150 kHz TO 30 MHz	
Mode of operation	Date	Data Report No.	Worst Mode
Normal Mode	05/23/00	8314E# (08, 18)	☒

Final Conducted Emission Test was conducted by operating the worst mode as indicated above.

Conducted Room		Data Report No. 8314E# (08, 18)		Date 05/23/00		Tested By: VINCE CHIANG	
Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz TO 30 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.150	51.81	0.00	51.81	66.00	-14.19	P	L1
0.505	41.75	0.00	41.75	56.00	-14.25	P	L1
1.527	38.62	0.00	38.62	56.00	-17.38	P	L1
15.066	45.98	0.00	45.98	60.00	-14.02	P	L1
0.150	52.77	0.00	52.77	66.00	-13.23	P	L2
0.497	43.52	0.00	43.52	56.00	-12.54	P	L2

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

APPENDICES

EXTERNAL I/O CABLE CONSTRUCTION DESCRIPTION

CONFIGURATION BLOCK DIAGRAM

CONDUCTED EMISSION PLOT

RADIATED EMISSION DATA

EUT PHOTOGRAPHS

External I/O Cable Construction Description

CABLE NO: 1	Number of I/O ports of this type: 1
I/O Port: KEYBOARD	Connector Type: DB25
Capture Type: Screw In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.1 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 2	Number of I/O ports of this type: 1
I/O Port: MOUSE	Connector Type: PS/2
Capture Type: Snap In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 3, 4	Number of I/O ports of this type: 2
I/O Port: MOUSE	Connector Type: USB
Capture Type: Snap In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 5	Number of I/O ports of this type: 1
I/O Port: USB JOYSTICK	Connector Type: USB
Capture Type: Snap In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 2.2 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 6	Number of I/O ports of this type: 1
I/O Port: PRINTER	Connector Type: DB25
Capture Type: Screw In	Type of Cable used: Shielded
Cable Connector Type: Metal	Cable Length: 1.1 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 7	Number of I/O ports of this type: 1
I/O Port: MONITOR	Connector Type: HD15
Capture Type: Screw In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.5 M
Bundled During Tests: Yes	Data Traffic Generated: Yes
Remarks: A FERRITE CORE ON THE CABLE OF PC END.	

CABLE NO: 8	Number of I/O ports of this type: 1
I/O Port: USB HUB	Connector Type: USB
Capture Type: Snap In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: TWO FERRITE CORE ON THE CABLE OF ENDS.	

CABLE NO: 9	Number of I/O ports of this type: 1
I/O Port: MODEM	Connector Type: DB9
Capture Type: Screw In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: Yes	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 10, 11	Number of I/O ports of this type: 2
I/O Port: USB HUB LOOP	Connector Type: USB
Capture Type: Snap In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: Yes	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 12 ~ 14	Number of I/O ports of this type: 3
I/O Port: Power Cord	Connector Type: AC Inlet
Capture Type: Snap-In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: No (Radiation), Yes (Line Conduction)	
Remarks: N/A	

CABLE NO: 15, 16	Number of I/O ports of this type: 2
I/O Port: Ac Adaptor	Connector Type: DC PLUG
Capture Type: Snap-In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: No (Radiation), Yes (Line Conduction)	
Remarks: N/A	

Configuration Block Diagram

