



47 CFR part 15 TEST REPORT

Internet protection Key

N°226001DK

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Technical control: O. ROY 	GYL technologies Parc d'activités de Lanserre 21 rue de la Fuye 49610 JUIGNE SUR LOIRE FRANCE Tel. : (+33) 2.41.57.57.40 Fax : (+33) 2.41.45.25.77	Quality Control: L. MONTIEL 
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**FCC CERTIFICATION TEST REPORT****FCC registration # 90469****EQUIPMENT FCC ID : SJZZIPK0100**

Written by : D; RAUD

September 27, 2004

Test report # 226001DK

This report concerns : Original grant Class II change

Equipment tested : **Internet Protection Key**

Equipment FCC ID : **SJZZIPK0100**

Designed by : **Everbee Networks
41 boulevard des Capucines
75002 PARIS - FRANCE**

Manufactured by : **Everbee Networks
41 boulevard des Capucines
75002 PARIS - FRANCE**

Deferred grant requested per 47 CFR 0.457 (d)(1)(ii)

YES NO

if yes, defer until :

Company Named agrees to notify the Commission by :

of the intended date of announcement of the product so that the grant can be issued on the date

Transition rules requested per 15.37?

YES NO

If no, assumed Part 15, Subpart B for intentional or

unintentional radiator

The new 47 CFR [10-1-96 edition] provision



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Written by : D.RAUD

EMC TEST REPORT
The 14 pages of this report are not sharable

September 27, 2004

2/14
FCC registration
90469

Identification : 226001DK

1 GENERAL INFORMATION

1.1 APPLICANT:

EVERBEE Networks
41 boulevard des Capucines
75002 PARIS - FRANCE

1.2 MANUFACTURER:

EVERBEE Networks
41 boulevard des Capucines
75002 PARIS - FRANCE

1.3 APPLICANT REPRESENTATIVE:

Monsieur Emmanuel BAU

1.4 TEST DATE:

September 22, 2004

1.5 TEST SITE:

GYL Technologies
Parc d'activités de Lanserre
49610 Juigné sur Loire – France
FCC registration Number : 90469



2 INTRODUCTION

The following test report for a specific USB key is written in accordance with Part 15 of the Federal Communications Commissions.. The test results reported in this document relate only to the item that was tested

All measurements contained in this Application were conducted in accordance with ANSI C63.4 Methods of Measurement of Radio Noise Emissions of 2001. The instrumentation utilized for the measurements conforms to the ANSI C63.4 standard for EMI and Field Strength Instrumentation. Some accessories are used to increase sensitivity and prevent overloading of the measuring instrument. These are explained in this report. Calibration checks are performed regularly on the instruments, and all accessories including the high pass filter, preamplifier and cables.

All radiated and conducted emissions measurements were performed manually at GYL TECHNOLOGIES. The radiated emissions measurements required by the rules were performed on the three to ten meters, open field, test site maintained by GYL Technologies Parc d'activités de Lanserre, 49610 Juigné sur Loire , France. Complete description and site attenuation measurement data have been placed on file with the Federal Communications Commission.

The power line conducted emission measurements were performed in a shielded enclosure also located at the Parc d'activités de Lanserre, 49610 Juigné sur Loire, France facility

3 MEASUREMENT EQUIPMENT LIST

PART TYPE	MANUFACTURER	MODEL	SERIAL NUMBER	CALIBRATION DATE
RECEIVERS				
Receiver	Rohde & Schwarz	ESI 7	M02020	Mar-04
Spectrum analyzer	Rohde & Schwarz	FSEM 30	M02021	Mar-04
Power meter	Rohde & Schwarz	NRVD	M01107	Apr-04
ARTIFICIAL MAINS NETWORKS				
LISN (50µH / 5/50Ω)	Rohde & Schwarz	ESH2-Z5	M02034	Nov-03
ANTENNAS				
Bilog (30-2000MHz)	CHASE	CBL-6112	M02031	Aug-04
Horn (1 to 18GHz)	EMCO	3161-01	M01138	
Horn (18 to 25 GHz)	EMCO	3160-09	M04002	Jan-04



4 TESTED SYSTEM DETAILS

The equipment tested is an USB key considered as an Information Technology Equipment. The equipment, used in residential, commercial or light industry area provides features to protect PC 's against offensive contents and the dangers of the Internet connections.

5 EQUIPMENT DESCRIPTION

The equipment is composed of a PCB as shown in exhibit 2 and a plastic envelope bearing the serial Number 100-012-345-701

Designation	Manufacturer	SN / Model	FCC ID
Software for the Key	Everbee	3.3.0 # 50 version	
Printed circuit	INFOTRON	Dongle USB 1.3	

5.1 Ancillary Equipment

Designation	Manufacturer	SN / Model	FCC ID
Portable PC	DELL	LATITUDE C400	DoC
Shielded USB cable	Everbee	Length 2.80 meter	
AC/DC adapter	DELL	ADO 50 FH	

6 EXERCISING TEST CONDITIONS

The Key was plugged in an USB port of the PC was set up to execute permanent emitting and receiving sequence in order to simulate the actual conditions of use and to have all functions working properly.



7 CONFORMANCE STATEMENT

7.1 STANDARDS REFERENCED FOR THIS REPORT

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47CFR Part 15 (12-15-2003 Edition)

PART 15: 2003	Radio frequency devices
PART 15: Subpart B	Unintentional Radiators
ANSI C63.4-2001	Standard format measurements/technical report personal computer and peripherals

7.2 JUSTIFICATION

As mentioned in paragraph 5 of this report, the equipment is an information technology equipment providing ticket or boarding pass and as it may not be installed in residential commercial or light industry areas the following sub clause of the standard mentioned above are

- Part 15.107 and 15.109 (subpart C) for respectively conducted and radiated emission.

8 Test results summary:

TEST	Reference	Results
Line conducted emissions	15.107	N/A
Radiated spurious emissions	15.109	complies



9 TEST ACCORDING TO CFR 47 Part 15 Class B

Tests performed by Daniel RAUD at GYL Technologies laboratories on September 22, 2004

9.1 REFERENCE DOCUMENTATION:

FCC part 15 (Subpart B) §15.107 and 15.109 of 2003

9.2 CONDUCTED EMISSIONS MEASUREMENTS

As the Equipment Under Test is directly powered by the USB connector of the End User PC, no conducted emissions measurements were performed because the device is not connected to the mains

9.3 RADIATED EMISSIONS MEASUREMENTS

Before final measurements of radiated emissions were made on the open-field three/ten meter range; the EUT was pre-scanned in the semi anechoic at one meter distance. This was done in order to determine its emissions spectrum signature. 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. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to insure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.1 meter above the ground plane. At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters in order to determine the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarizations. The spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. No video filter less than 10 times the resolution bandwidth was used. The range of the frequency spectrum to be investigated is specified in FCC Part 15. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

Summary of settings

ESI 7 EMI TEST RECEIVER IN RECEIVER MODE	
Peak measurement time	5 ms
step size	40 KHz
Preamplifier	ON
Preselector	ON
Resolution, Band With	120 kHz
Final Quasi Peak measurement time	1 s minimum
Final average measurement time	N/A

All readings are quasi-peak unless stated otherwise.

9.4 RESULTS (§ 15.109 class B):

The following data table lists the most significant emission frequencies, measured level, correction factor (includes cable and antenna corrections), corrected reading and the limit. The highest peaks are measured in quasi-peak detection mode at 3 meters distance (due to equipment size).

Frequency (MHz)	Peak (dB μ V/m)	Quasi peak (dB μ V/m)	Margin (dB)	Polar.	Height (cm)	Angle (°)	Facteur Corr. (dB)	Comments
66,682	25,32	24,55	-15,45	V	102	275	8,37	
75,026	35,34	34,01	-5,99	V	134	163	8,80	
78,166	34,40	29,19	-10,81	V	105	141	9,31	
125,011	38,26	37,87	-5,63	V	103	226	13,74	
133,347	53,00	33,68	-9,82	V	96	216	13,69	
165,828	29,00	23,74	-19,76	V	101	160	13,59	
199,835	33,90	27,32	-16,18	V	101	13	11,42	
333,316	34,11	30,62	-15,38	V	185	16	16,70	
399,042	40,31	35,96	-10,04	V	151	43	19,29	
467,503	44,49	40,77	-5,23	V	222	336	20,86	

