

15.209 Class B peripheral
FCC ID : IMKRL26307M

EMI TEST REPORT

On

RangeLAN2 6307-05
Mini ISA Design-in Card

Prepared for

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Test Report Number: A812004add
Date of Test: March 19, 1999

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1.0 TEST FACILITY

Name: Electronic Compliance Laboratories
Location: 1249 Birchwood Dr.
Sunnyvale, CA 94089
Site Filing: A site description is on file at the Federal Communications
Commission
P.O. Box 429
Columbia, MD 21045
NVLAP LAB CODE: 200089
Types of Sites: Open Field Radiated and Indoor Screen Room (Line
Conducted). All sites are constructed and calibrated to
meet ANSI C63.4-1994 requirements.

2.0 TEST EQUIPMENT

Description	Manufacturer	Model	SN
EMI Receiver	HP	8546A	3325A00137
Preamp	HP	8447F	3113A05849
Biconical Antenna	EM	EM 6912	414
Log Periodic Ant	EM	EM 6950	311

3.0 EUT

RangeLAN2 6307-05

Model Number - 6307
Serial Number - 8FFB
FCC ID: - IMKRL26307M

4.0 SUPPORT EQUIPMENT

Dell Computer	- M/N 466LN	S/N 5Q8D4
Logitech Mouse	- M/N M-S34-6MD	S/N LZA54637080
Packard Bell Keyboard	- M/N 7939	S/N 841180007
KFC Monitor	- M/N CA1511	S/N A4KKU4931207
Printer	- M/N BJ-200ex	S/N BAA44391

EQUIPMENT CONFIGURATION

The RangeLAN2 6307-05 Mini ISA Design-in card was designed to be a drop-in spread spectrum device that has already been FCC certified so that customers purchasing the product would not have to apply for an intentional radiator certification.

In order to prove the module will pass all requirements in a stand alone configuration a desktop PC was used to provide DC power and to allow test commands to be sent and data received. The card was placed outside of the PC shell.

All of the equipment and cables were placed in worst case positions to maximize emissions.

Interconnecting cables were of the type and length specified in the individual equipment requirements.

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

6.0 SUMMARY OF TESTS

6.1 15.209 RADIATED EMISSIONS

with The attached table shows that the Class B radiated limits from 30 - 1000 MHz are not exceeded by the EUT. The EUT was operating normally a combination of transmission and reception and hopping one of the fifteen pseudorandom sequences during this test. The EUT was placed near one edge of a wooden table resting on a turntable. The wooden table was approximately 1 meter above the groundplane of the 3 meter test site. The search antennas were located at 3 meters. Measurements were made in accordance with ANSI C63.4-1994. **Test Data is in Appendix A.**

Electronic Compliance Laboratories

Chris Byleckie
Technical Director

Date

APPENDIX A
15.209 RADIATED EMISSIONS

Electronic Compliance Laboratories, Inc.
 1249 Birchwood Ave.
 Sunnyvale, CA

Radiated Emissions
 Frequency range: 30MHz-1000MHz

3 Meter Open Site
 Site Calibrated: June 1997

Government Agency and Limit: FCC Class B

QP = Quasi-Peak Note: Ignore peak readings when Quasi-Peak reading exists
 PK = Peak

Customer: Proxim Operator: Chris
 Date: 03-19-1999 Time: 14:34:41
 Temperature Range: 65 Deg F Percent Humidity: 55
 E.U.T.: 6307 design in modules
 Serial Number: 8FFB
 Support Devices: Dell CPU, monitor, keyboard, mouse, printer
 Exercise Program: rl2diag
 Modifications: None
 Report File Name: F:\TESTDATA\8120901a.RF

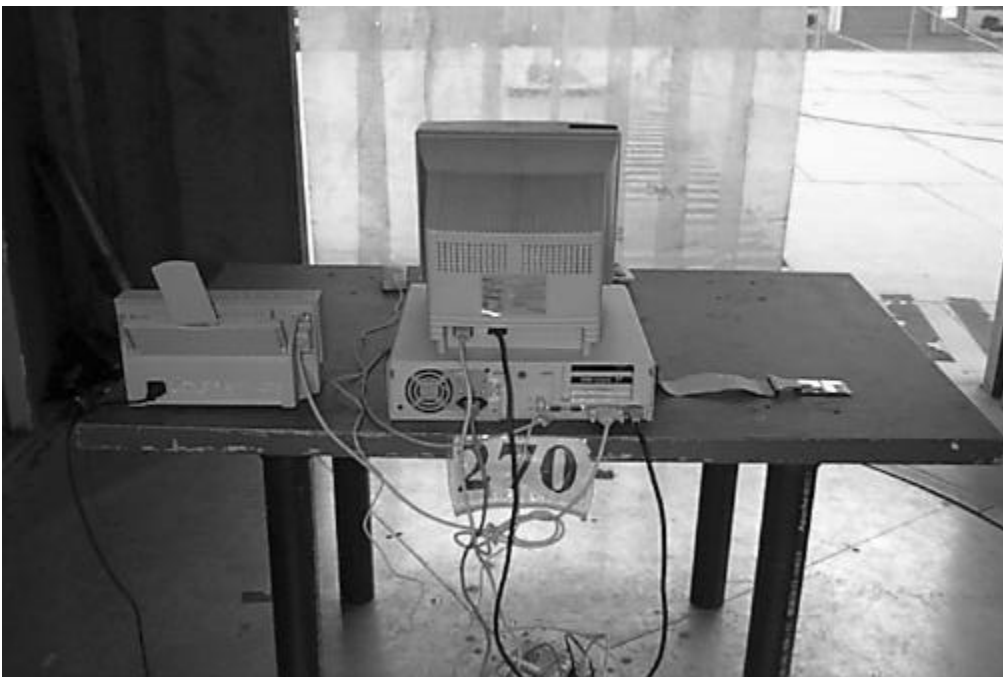
Antenna Type: BICONICAL

TEST FREQ	TEST dBuV	ACTUAL dBuV/m	CLASS B LIMIT	VERSUS B LIMIT	TABLE DEGREES	ANTENNA HEIGHT	POLAR- IZATION	DETECTOR Type
=====	=====	=====	=====	=====	=====	=====	=====	=====
64.000	47.5	30.6	40.0	-9.4	250	2.0	V	PK
128.000	44.6	34.4	43.5	-9.1	220	2.0	V	PK
144.000	42.0	32.4	43.5	-11.1	270	2.5	V	PK
176.000	39.5	30.6	43.5	-12.9	270	2.0	V	PK
208.000	41.3	33.4	43.5	-10.1	240	2.0	V	PK
240.000	42.2	34.7	46.0	-11.3	0	2.5	V	PK
256.000	32.5	25.2	46.0	-20.8	330	2.5	V	PK
272.000	39.5	33.3	46.0	-12.7	270	2.0	V	PK
288.000	35.8	31.7	46.0	-14.3	260	2.5	V	PK
288.000	39.5	35.4	46.0	-10.6	320	2.0	H	PK
272.000	39.6	33.4	46.0	-12.6	320	2.5	H	PK
256.000	40.2	32.9	46.0	-13.1	0	2.0	H	PK
240.000	44.3	36.8	46.0	-9.2	0	2.5	H	PK
224.000	41.1	33.4	46.0	-12.6	0	2.	H	PK
208.000	40.6	32.7	43.5	-10.8	0	2.5	H	PK
176.000	45.4	36.5	43.5	-7.0	0	2.5	H	PK
160.000	49.0	40.0	43.5	-3.5	0	2.5	H	PK
160.000	46.5	37.5	43.5	-6.0	0	2.5	H	QP

Date: 03-22-1999
 E.U.T.: 6307M design in module
 Serial Number: 8FFB
 Antenna Type: LOG PERIODIC

TEST FREQ	TEST dBuV	ACTUAL dBuV/m	CLASS B LIMIT	VERSUS B LIMIT	TABLE DEGREES	ANTENNA HEIGHT	POLAR- IZATION	DETECTOR Type
=====	=====	=====	=====	=====	=====	=====	=====	=====
144.000	48.0	38.4	43.5	-5.1	350	2.5	H	PK
144.000	45.0	35.4	43.5	-8.1	350	2.5	H	QP
112.000	45.6	33.7	43.5	-9.8	0	2.5	H	PK
64.000	47.2	30.3	40.0	-9.7	350	2.5	H	PK
CHANGED ANTENNA TO LOG PERIODIC								
304.000	30.6	21.8	46.0	-24.2	330	1.5	V	PK
336.000	37.4	28.4	46.0	-17.6	270	1.5	V	PK
352.000	35.3	26.6	46.0	-19.4	270	1.5	V	PK
400.000	33.2	25.7	46.0	-20.3	320	2.0	V	PK
416.000	33.5	26.2	46.0	-19.8	320	1.5	V	PK
448.000	35.1	28.3	46.0	-17.7	270	2.0	V	PK
448.000	33.2	26.4	46.0	-19.6	260	2.5	H	PK
432.000	32.0	24.9	46.0	-21.1	250	3.0	H	PK
400.000	36.2	28.7	46.0	-17.3	270	3.0	H	PK
384.000	36.6	28.7	46.0	-17.3	270	2.5	H	PK
368.000	33.8	25.5	46.0	-20.5	270	2.5	H	PK
336.000	38.8	29.8	46.0	-16.2	300	2.0	H	PK
320.000	38.5	29.3	46.0	-16.7	300	2.5	H	PK
304.000	34.1	25.3	46.0	-20.7	300	2.0	H	PK

APPENDIX B
SET-UP PHOTOS



15.209 Class B Radiated Emissions