TEST PROCEDURE

This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. The UUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The hopping was stopped at the low, middle, & high end of the band and the UUT measured. The ambient temperature of the UUT was 85Deg F with a humidity of 89.2%. The hopping was stopped at the low end, middle and high end of the band in order to test the radiated emissions.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS

20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

TEST EQUIPMENT LIST

- Spectrum Analyzer: Hewlett Packard 8566B Opt 462, w/ preselec 1. tor 85685A, & Quasi-Peak Adapter HP 85650A, & HP 8449B - OPT H02 Cal. 10/02/97
- Signal Generator, Hewlett Packard 8640B, cal. 6/26/98 2.
- Eaton Biconnical Antenna Model 94455-1 3. 20-200 MHz Serial No. 0997 Cal. 9/17/97
- Electro-Metric Dipole Kit, 20-1000 MHz, Model TDA 25 cal. 5/15/97 4.
- Electro-Metric Horn 1-18 GHz, Model RGA-180, Cal. 9/24/97 5.
- Electro-Metric Antennas Model TDS-25-1, TDS-25-2, 9/3/97 6.
- Electro-Metric Line Impedance Stabilization Network Model 7. No. EM-7821, Serial No. 101; 100KHz-30MHz 50uH. 9/30/97
- Electro-Metric Line Impedance Stabilization Network Model 8. No. EM-7820, Serial No. 2682; 10KHz-30MHz 50uH. 9/30/97

INTRODUCTION: GENERAL INFORMATION AND DATA

PRODUCT DESCRIPTION The IMKAP2-1020 is a frequency hopping radio LAN which consists of several separate blocks. The controller is responsible for all interfacing and receives and responds to all incoming events. The controller executes a multitasking kernel which resides in internal memory. The controller powers up and down the receiver section, transmitter, the time base and power management.

PROXIM, INC. APPLICANT: IMKAP2-1020 FCCID:

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APPLICANT:

PROXIM, INC.

FCC ID:

IMKAP2-1020

NAME OF TEST:

RADIATION INTERFERENCE

RULES PART NUMBER: 15.247, 15.209

REQUIREMENTS:

FIELD STRENGTH

FIELD STRENGTH §15.209 of Harmonics 30 - 88

30 - 88 MHz 40 dBuV/m @3M

of Fundamental:

127.38dBuV/m @3m

88 -216 MHz 43.5

2400-2483.5MHz

54 dBuV/m @3m

216 -960 MHz 46 ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

TEST RESULTS: This unit DOES meet the FCC requirements.

TEST DATA:

EMISSION FREQ. MHz	METER READING <u>0 3m dBuV</u>	COAX LOSS dB	ACF dB	FIELD STRENGTH dBuV/m	MARGIN dB	ANT.
2401.14	74.70	1.09	29.00	104.79	22.59	Н
4802.08R	16.4	1.45	33.90	51.35	2.65	Н
7203.12	14.2	1.81	36.60	52.61	1.39	Н
2436.14	77.60	1.10	29.09	107.79	19.59	Н
4872.15R	17.20	1.46	33.98	52.64	1.36	Н
7308.29R	14.10	1.83	36.72	52.65	1.35	Н
2456.16	14.20	1.10	29.14	107.84	19.54	H
4912.32R		1.47	34.03	52.20	1.80	H
7368.48R		1.84	36.79	52.83	1.17	H
12280.80R		2.36	38.71	43.67	10.33	V

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APPLICANT:

PROXIM, INC.

FCC ID:

IMKAP2-1020

NAME OF TEST:

RADIATION INTERFERENCE

RULES PART NUMBER:

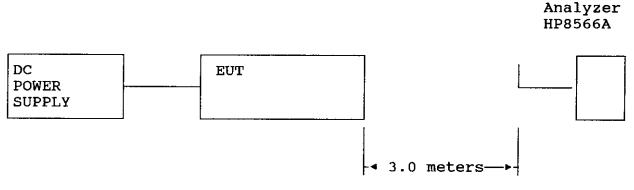
15.247, 15.209

TEST PROCEDURE: ANSI STANDARD C63.4-1992 as described on previ-

ous page.

2.993(a)(b) Continued Field strength of spurious emissions:

Method of Measuring Radiated Spurious Emissions



Tuned, Calibrated Antenna which may be raised from 4 to 20' above ground and changed in polarization

Hewlett Packard Spectrum

Equipment placed 4' above ground on a rotatable platform.

APPLICANT: PROXIM, INC. IMKAP2-1020 FCCID:

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LXE REPAIR SERVICES WORK ORDER

The repair of your LXE equipment is much faster when you provide us accurate information regarding the problem(s). Please include this form with all RA's to help us serve you better.

Phone Number to call to get an RA Number: <u>770-449-0154 / FAX # 770-447-4561</u>							
Return Authorization Numb	per (RA*):						
Unit Model No.: Customer Name:							
Unit Serial No.: P.O.							
RETROFIT (DESCRIBE W	ORK TO BE PERFORMED ON TH	HE BACK)					
SITE CONTACT NAME AN	ND PHONE NUMBER:						
SHIP TO" ADDRESS:							
"BILL TO" ADDRESS:	<u></u>						
Service Contracts) If repair exceeds \$	Subject to LXE's standard terms	and conditions. ise actual charges will	to the above number (not required on be invoiced. Always reference the RA.				
[] GETS "PLEASE SEND A [] GETS "COMPUTER DID [] THE MESSAGE "TRANS [] BARCODE PORT:	RF TERMINALS / CHE [] DISPLAY PROBLEM AGAIN" OR "PRESS INQ TO CON NOT ANSWER, PLEASE SEND A BMITTING" IS DISPLAYED LONGI [] NO BEAM [] NO SEND	TINUE" AGAIN" ER THAN NORMAL [] NO READ	[] CONSTANT BEAM				
[] NO CONSOLE DISPLAY [] NO COMMUNICATION F [] SLOW RESPONSE TIME	DSSTOPFLASHING&STAYONSO FROM CIU TO RFU	LID [] STOPS IN BOOT PROCESS] RF CARD [] HOST CARE				
[] NO TRANSMIT [] NO RECEIVE [] NO COMMUNICATION T [] LIGHTNING DAMAGE [] FREQUENCY CHANCE	OR UPGRADE (SPECIFY BELOV	V)					
[] NO BEAM [] CABLE PROBLEM	SCANNING DEVICES/ CI [] NO DECODE [] OTHER (SPE		LY [] CONSTANT REAM				