



M. Flom Associates, Inc. - Global Compliance Center

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ENVIRONMENTAL ASSESSMENT

for

MOBILES/FIXED BASE STATION

for

FCC ID: FCC ID: QQLC3310

Model: C3310

to

FEDERAL COMMUNICATIONS COMMISSION

47 CFR 1.1310 (MPE)

Radiofrequency Radiation Exposure Limits

DATE OF REPORT: February 7, 2003

ON THE BEHALF OF THE APPLICANT:

AirLink Communications, Inc.

AT THE REQUEST OF:

P.O. 0020828

AirLink Communications, Inc.
472 Kato Terrace
Fremont, CA 94539

Attention of:

Jim Baichtal
510-226-4201; FAX: -4299
email: jim@airlink.com

SUPERVISED BY:

A handwritten signature in black ink, reading 'M. Flom P. Eng.' with a stylized, cursive-like script.

Morton Flom, P. Eng.

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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

- a) TEST REPORT (SUPPLEMENTAL)
- b) Laboratory: M. Flom Associates, Inc.
(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107
(Canada: IC 2044) Chandler, AZ 85225
- c) Report Number: d0320012
- d) Client: AirLink Communications, Inc.
472 Kato Terrace
Fremont, CA 94539
- e) Identification: C3310
FCC ID: QQLC3310
Description: CDMA Modem
- f) EUT Condition: Not required unless specified in individual tests.
- g) Report Date: February 7, 2003
EUT Received: 2003-Jan-29
- h, j, k): As indicated in individual tests.
- i) Sampling method: No sampling procedure used.
- l) Uncertainty: In accordance with MFA internal quality manual.
- m) Supervised by: 
Morton Flom, P. Eng.
- n) Results: The results presented in this report relate only to the item tested.
- o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

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IDENTIFICATION OF THE EQUIPMENT UNDER TEST (EUT)NAME AND ADDRESS OF APPLICANT:

AirLink Communications, Inc.
472 Kato Terrace
Fremont, CA 94539

MANUFACTURER:

AirLink Communications, Inc.
472 Kato Terrace
Fremont, CA 94539

FCC ID: QQLC3310MODEL NO: C3310DESCRIPTION: CDMA ModemTYPE OF EMISSION: 1M25F9WFREQUENCY RANGE, MHz: 824.04 to 848
1850 to 1910POWER RATING, Watts: 0.25
Switchable Variable x N/AMODULATION:
AMPS
TDMA
x CDMA
OTHERANTENNA:
HELICAL
MONOPOLE
WHIP
x OTHER

NOTE: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.

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M. Flom Associates, Inc. is accredited by the American Association for Laboratory Association (A2LA) as shown in the scope below.



"This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report."

Should this report contain any data for tests for which we are not accredited, or which have been undertaken by a subcontractor that is not A2LA accredited, such data would not be covered by this laboratory's A2LA accreditation.

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STANDARD TEST CONDITIONS
and
ENGINEERING PRACTICES

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2000, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst case measurements.

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Name of test: R.F. Radiation Exposure

FCC Rules: 1.1307, 1.1310, 1.1311, 2.1091
 Description, EUT: See page 2 of Test Report

LIMITS: Uncontrolled 0.3-1.234 MHz: Limit [mW/cm²] = 100
 Exposure 1.34-30 MHz: Limit [mW/cm²] = (180/f²)
 47 CFR 1.1310 30-300 MHz: Limit [mW/cm²] = 0.2
 Table 1, (B) 300-1500 MHz: Limit [mW/cm²] = f/1500
 1500-100,000 MHz: Limit [mW/cm²] = 1.0

Frequency Range, MHz	Limits, mW/cm ²
824 - 849	0.549 to 0.566
1850 - 1910	1.0 to 1.0

MHz	Measured Maximum Power Density, mW/cm ²
824.73	0.025
836.40	0.010
849.19	0.001
1851.25	0.020
1880.00	0.019
1908.75	0.019

(The following will be placed in the Instruction Manual)

MANDATORY SAFETY INSTRUCTIONS TO INSTALLERS & USERS

Use only manufacturer or dealer supplied antenna.

Antenna Minimum Safe Distance: 20 cm.

Antenna Gain: zero dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

Antenna Mounting: The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna i.e. 20 cm.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

Base Station Installation: The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

Antenna Substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer. You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

WARNING: Maintain a separation distance from the antenna to a person(s) of at least 20 cm.

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna.

TESTIMONIAL
AND
STATEMENT OF CERTIFICATION

THIS IS TO CERTIFY THAT:

1. THAT the application was prepared either by, or under the direct supervision of, the undersigned.
2. THAT the technical data supplied with the application was taken under my direction and supervision.
3. THAT the data was obtained on representative units, randomly selected.
4. THAT, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

CERTIFYING ENGINEER:


Morton Flom, P. Eng.