



10 December, 2002

To Whom It May Concern,

Reference: **Warnings and Notices in the LMS4000 900 MHz Radio Network User's Guide - FCC ID "OOX-EUM3003"**

The LMS4000 900 MHz Radio Network User's Guide documents the CCU3000, the EUM3000 and the EUM3003.

The CCU3000 and EUM3000 are already FCC certified under FCC ID "OOX-LMS3000". All existing warnings and notices for these two products will remain in the User's Guide and will now include the EUM3003.

Testing of the EUM3003 has shown that this new product meets or exceeds FCC requirements when used with an Ethernet Patch Cable with a Ferrite Filter. This patch cable is part of the standard EUM3003 kit as provided by WaveRider Communications Inc.

To ensure that the user is aware of this requirement, the following notice is being added to the LMS4000 User's Guide:

WARNING: In order to comply with FCC emissions standards, the EUM3003 must be used with an Ethernet Patch Cable with Ferrite Filter. This cable is supplied as part of the EUM3003 kit. Additional cables, both crossover and straight-through, are available from WaveRider Communications Inc.

The text of the regulatory warnings and notices is appended to this letter. This text will appear in the preface of the updated LMS4000 900 MHz Radio Network User's Guide.

Yours truly,

A handwritten signature in black ink, appearing to read "Lawrence Gordon", is written over a horizontal line.

Lawrence Gordon,

Senior Technical Design Lead,

WaveRider Communications Inc.

Suite 2B, 6110 - 1A St. SW, Calgary, Alta, T2H 0G3

Tel/FAX: (403) 253-5366, Tel: (403) 616-5668(cell)



Regulatory Notices (The following text will appear in the LMS4000 User's Guide Preface)

This device has been designed to operate with several different antenna types. The gain of each antenna type shall not exceed the maximum antenna system gain as given in Appendix E on page (tbd). Antennas having a higher gain are strictly prohibited by Industry Canada and FCC regulations. The required antenna impedance is 50 ohms.

Industry Canada

CCU3000, EUM3000 and EUM3003

The IC Certification Number for the CCU3000 and EUM3000 is 3225104140A. The IC Certification Number for the EUM3003 is TBD.

Operators must be familiar with IC RSS-210 and RSS-102. The CCU3000, EUM3000, and EUM3003 have been designed and manufactured to comply with IC RSS-210 and RSS-102.

Federal Communications Commission

CCU3000, EUM3000 and EUM3003

The CCU3000, EUM3000, and EUM3003 have been designed and manufactured to comply with FCC Part 15.

Operators must be familiar with the requirements of the FCC Part 15 Regulations prior to operating any link using this equipment. For installations outside the United States, contact local authorities for applicable regulations.

The FCC ID for the CCU3000 and EUM3000 equipment is OOX-LMS3000. The FCC ID for the EUM3003 equipment is OOX-EUM3003.

The transmitters of these devices complies with Part 15.247 of the FCC Rules.

The CCU3000, EUM3000, and EUM3003 (with outdoor antenna only) must be professionally installed.

Interference Environment

Operation is subject to the following conditions:

- This device may not cause harmful interference and,
- This device must accept any interference received, including interference that might cause undesired operation.

Operational Requirements

CCU3000, EUM3000 and EUM3003

In accordance with the FCC Part 15 regulations:

1. The maximum peak power output of the intentional radiator shall not exceed one (1) watt for all spread spectrum systems operating in the 902 to 928MHz band. This power is measured at the antenna port of the CCU or the EUM.

WaveRider Communications (Canada) Inc.
Suite 2B, 6110 - 1A Street SW, Calgary, Alberta T2H 0G3
Tel/FAX: 403•253•5366 web: www.waverider.com



2. Stations operating in the 902 to 928MHz band may use transmitting antennas of directional gain greater than 6dBi, provided the peak output power from the intentional radiator is reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

The gains referred to in point 2 are with respect to the total antenna system gain.

The operator of a spread spectrum system and the user of the radio device are each responsible for ensuring that the system is operated in the manner outlined in Interference Environment (above).

Warnings and Advisories

General Advisory

Operator and maintenance personnel must be familiar with the related safety requirements before they attempt to install or operate the LMS4000 equipment.

It is the responsibility of the operator to ensure that the public is not exposed to excessive Radio Frequency (RF) levels. The applicable regulations can be obtained from local authorities.

Do not operate the CCU or EUM without connecting a 50-ohm termination to the antenna port. This termination can be a 50-ohm antenna or a 50-ohm resistive load capable of absorbing the full RF output power of the transceiver.

WARNING

The LMS4000 external antennas must be professionally installed and properly grounded. Antennas and associated transmission cable must be installed by qualified personnel. WaveRider assumes no liability for failure to adhere to this recommendation or to recognized general safety precautions.

WARNING

To comply with FCC RF exposure limits, the antennas for the CCU must be fix-mounted on outdoor permanent structures to provide a separation distance of 2m or more from all persons to satisfy RF exposure requirements. The distance is measured from the front of the antenna to the human body. It is recommended that the antenna be installed in a location with minimal pathway disruption by nearby personnel.

The antennas for the EUM must be fix-mounted, indoors or outdoors, to provide a separation distance of 20cm or more from all persons to satisfy RF exposure requirements. The distance is measured from the front of the antenna to the human body. Again, it is recommended that the antenna be installed in a location with minimal pathway disruption by nearby personnel.

Notice to Users

Special Accessories

In order to comply with FCC Part 15 standards, the EUM3003 must be used with an Ethernet Patch Cable with permanently attached ferrite filter. This cable is supplied as part of the EUM3003 kit. Additional cables, both crossover and straight-through, are available from WaveRider Communications Inc. Responsibility to ensure the correct patch cable is used lies with the end-user.

WaveRider Communications (Canada) Inc.
Suite 2B, 6110 - 1A Street SW, Calgary, Alberta T2H 0G3
Tel/FAX: 403•253•5366 web: www.waverider.com
