UltraTech
Group of Labs

September 02, 2000

FEDERAL COMMUNICATIONS COMMISSION
7435 Oakland Mills Road
Columbia, MD 21046
USA

Subject: **FCC Certification Authorization Application under FCC PART 15, Subpart C, Sec. 15.247 - Frequency Hopping Spread Spectrum Transmitters operating in the frequency band 2402 - 2478 MHz.**

Product: **Frequency Hopping Spread Spectrum Transceiver Module**
Model No.: **LX2400**
FCC ID: **KQL-LX2400**
731 Confirmation No.: EA98784

Dear Sir/Madam

As appointed agent for Aerocomm Inc., we would like to submit the application to the Federal Communications Commission for certification of the above product. Please review all necessary files uploaded to FCC OET site for detailed information.

- **Product Approval Overview:**
  The application is for the family of 3 versions of the radios: 2.5 mW, 11 mW and 147.9 mW. These radios are mechanically and electrically identical, the only difference is the power amplifier component.

Family Models	Portable	Mobile	Fixed
LX2400-3	X	X	X
LX2400-10	X	X	X
LX2400-150		X	X

- **Approved Antenna Overview:**

Antenna Model/Part Number	Manufacturer	Type	Gain	Connector Type	Application*	LX2400-3	LX2400-10	LX2400-150
WCP-2400-MMCX	Centurion	¼ Wave Dipole	2dBi	MMCX	P/M/F		X	X
Z986	Maxrad	Patch	2.5dBi	MMCX	F			X
NZH2400-MMCX (External)	AeroComm	Microstrip	1dBi	MMCX	P		X	X
NZH2400-I (Integrated)	AeroComm	Microstrip	1dBi	Integrated	P	X		
S131CL-5-RMM-2450S	Nearson	¼ Wave Dipole	2dBi	MMCX	P/M/F		X	X
S181FL-5-RMM-2450S	Nearson	¼ Wave Dipole	2dBi	MMCX	P/M/F		X	X
S191FL-5-RMM-2450S	Nearson	¾ Wave Dipole	3dBi	MMCX	M/F		X	X

*P=Portable, M=Mobile, F=Fixed/Basestation

3000 Bristol Circle
Oakville, Ontario, Canada
L6H 6G4

Telephone (905) 829-1570
Facsimile (905) 829-8050

Website: www.ultratech-labs.com
Email: tri.luu@Sympatico.ca
vhk.ultratech@sympatico.ca

UltraTech
Group of Labs

- **Compliance with RF Exposure Requirements**:

  - For the 2.5 mW and 11 mW radios intended for use in any applications (portable, mobile or base), the transmitters comply with FCC 2.1093 and FCCOET Bulletin 65 (August 1997) with maximum 0.4 W/Kg with body tissue at hip position with among optional antennas. Please refer to attached SAR test report.
  - For the 148 mW Radio, the transmitter, only intended for use with a mobile or base system, complies with FCC 2.1091 with the minimum RF safety distance of 30 cm.

- **Modular Transmitter Approval Request**:
  This application is subject to the FCC certification for a modular transceiver, please kindly refer to the Section 6.5 of the submitted test report for clarification of compliance for this modular transmitter with FCC Public Notice DA 00-1407.

- **Modular Approval Limitation**:

✓ This transmitter module is only sold to second manufacturer/installer. The MMCX antenna connectors shall be enclosed inside the OEM product enclosure and not accessible to end-users.

✓ The Model LX2400-150, which has maximum peak power is 147.9mWatts and maximum antenna gain is 3 dBi, is only suitable for Mobile and Base uses with the antenna gain less or equal to 3 dBi gain.

If you have any queries, please do not hesitate to contact us.

Yours truly,

Tri Minh Luu, P. Eng.,
V.P., Engineering

Encl

3000 Bristol Circle
Oakville, Ontario, Canada
L6H 6G4

Telephone (905) 829-1570
Facsimile (905) 829-8050

Website: www.ultratech-labs.com
Email: tri.luu@Sympatico.ca
vhk.ultratech@sympatico.ca