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List of General Information Required for Certification

In Accordance with FCC Rules and Regulations,  
CFR 47, Part 2, 15 and 90

Sub-Part

2.1033 (c) Technical Description of Equipment

(1) Name of Applicant:

Research In Motion (RIM) Limited  
RIM is the applicant and the manufacturer of the device described herein. For mailing address refer to the Form 731

(2) FCC Identifier:

L6AR6510IN

(3) Operating Manual:

Refer to Exhibit – User’s Manual

(4) Type of Emission:

Narrow band 25 kHz TDM transmit channel consisting of four equal power, equal bandwidth sub-channels. Modulation in each sub-channel is typically 16- Quadrature Amplitude Modulation (16-QAM). Quadrature Phase Shift Keying (QPSK) and 64 -Quadrature Amplitude Modulation (64-QAM) are also used.

Emission Designator

21K4D7W

(5) Frequency Range:

Rx : 851 MHz to 870 MHz, 25 KHz channel resolution.  
Tx : 806 MHz to 825 MHz, 25 KHz channel resolution.



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(6) Operating Power Output Levels:

The mobile output power is software controlled with 8 discrete power steps with an accuracy of +/- 1.6 dB at maximum power and +/- 6 dB at minimum power. The output power over the 25 KHz channel will be within the -6 dBm to +28 dBm pulse average power. (TDM with 1/3 transmit duty cycle, hence the measured maximum pulse average power is 28.38 dBm)

(7) Maximum Power Rating:

As defined in the applicable parts of the rules:  
ERP for mobile transmitters are limited to 30 Watts peak.  
The equipment tested meets this limit.

Authorization requested is 1.58 Watts (32.0 dBm) ERP.

(8) Voltages & Currents In All Elements In Final R.F. Amplifying Device:

The handheld is powered by a lithium ion rechargeable battery that has a voltage range of 3.5 to 4.2 Vdc. The maximum pulse average output power of the power amplifier is 30.96 dBm directly at the PA output during the transmit TDM slot. The measured current consumption of the power amplifier was 1253mA at maximum power and 458mA at minimum power output (during the transmit TDM slot).