



4 October 2010

Authorization & Evaluation Division  
Federal Communications Commission Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046

**Subject: Application for Certification of dual transmitter with FCC ID: IHDP56LM1, i786/i786w-Series Handsets with Bluetooth.**

Gentlemen;

Motorola Mobility, Inc.; 600 North US Hwy 45, Libertyville, IL herein submits its application for certification of the multi-mode handset with FCC ID: **IHDP56LM1**.

This is a variable output power (0.22 to 640 milliwatts) transmitter that is part of a handheld transceiver used in SMR and EA SMR trunking systems operating within the United States 806-821/851-866 MHz and 896-901/935-940 MHz frequency bands. Operation is also extended for use in a Narrowband PCS system operating in the United States in the spectrum between 901-902/940-941 MHz, on channels which the licensee has aggregated together to form twenty-one 25 kHz operating channels.

This device also possesses a transmitter that operates in the ISM band (902 – 928 MHz). The two transmitters are configured so that they operate exclusive of each other (i.e. only one mode can operate at a time). While in this mode there is no connectivity to any cellular networks, and the transceiver uses only the FHSS protocol, as permitted in the ISM band. The operational mode is selected by the user via a menu selection. Certification is also sought for this transceiver, and performance data is provided for that purpose (Exhibit 6c).

To facilitate global roaming it is kindly requested that a note be provided in the Grant for Equipment Authorization, which states that this 'receive first' type of equipment is compliant for transmitter operation over the broader range 806-825 MHz when used with a compatible Authorized Base Station. This will aid equipment authorization in foreign countries, which accept a United States FCC Grant for Equipment Authorization, yet not jeopardize United States public safety or cellular systems licensed to operate in the 821-825 MHz frequency band since no compatible base station may be authorized on those frequencies in the United States.

This radio product is equipped with a Bluetooth (BT) transceiver. BT supports both voice and data for short range wireless communications. The Bluetooth Band of Operation is 2.4 - 2.4835 GHz (1 MHz channel bandwidth). It is a Class 1 type device, with power rated +4 to +10 dBm (typical +8 dBm). The physical location of the Bluetooth antenna is shown in Exhibit 7b. The BT device complies 15.247 (c), 15.205 and 15.209 (b).

All transmitters contained in this radio product have been subjected to routine environmental evaluation (as applicable) according to 47 CFR Part 2.1093 (c) for RF exposure and found to be compliant with the limits specified in 47 CFR 2.1093(d)(2).

This radio product features an integrated GPS receiver, and is designed to function as a computer peripheral device when functioning as an RF modem, while connected to a computer via a data cable, as described in 47 CFR Part 15.3(r). For these reasons a Declaration of Conformity has been prepared and provided as part of the User Guide (Exhibit 8), as shown on the exhibit cover page.

Enclosed is a complete Certification Application. Contact me at (847) 523-6167 if you require any additional information.

Sincerely,



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Andrew J. Bachler  
FCC Liaison  
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