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March 18, 2010

To whom it may concern:

The enclosed documents constitute a formal submittal and application for a Class II Permissive change for a 2.4GHz WiFi radio module pursuant to Subpart C of Part 15 of FCC Rules (CFR 47). The module was approved under FCC ID W93-ABCAU500G.

The scope of the permissive change is to update the FCC grant of authorization to allow the module to be co-located into a mobile or fixed-mounted host system with up to 3 other modules of the same type and a fourth module, operating in the 5.7GHz band and approved as a module under FCC ID W93-ABCAU500AAAA.

An rf exposure evaluation has been performed to cover the co-location of the following combinations of modules:

- 1 x FCC ID W93-ABCAU500G and 1 x FCC ID W93-ABCAU500AAAA
- 2 x FCC ID W93-ABCAU500G
- 2 x FCC ID W93-ABCAU500G and 1 x FCC ID W93-ABCAU500AAAA
- 3 x FCC ID W93-ABCAU500G
- 3 x FCC ID W93-ABCAU500G and 1 x FCC ID W93-ABCAU500AAAA

In order to maintain compliance with the maximum output power of 1 Watt in the 2.4GHz band, host systems with more than one of the 2.4GHz modules are configured to ensure that the maximum output power from each module is reduced from the maximum, single-module rating of 0.997 Watts to $[1.0/n]W$, where n is the number of modules installed. Further, to comply with the maximum allowed psd of 8dBm /kHz and with band-edge radiated spurious requirements the host systems are also configured to ensure that no two modules can operate on overlapping channels.

The installation of multiple modules into a single host system require professional installation to ensure output power and operating channels are configured correctly. It is fully expected that the grant notes will reflect this requirement. Installation instructions explaining how the output power is controlled are provided. As these instructions are provided only to professional installers and should not be made available to the general public they have been uploaded as an operational description so that they can be held confidential.

The host systems are evaluated against the FCC rules for Class A digital devices as required by the verification procedure when configured with these radio modules.

Elliott Laboratories, as duly authorized agent prepared this submittal. A copy of the letter of our appointment as agent is included with the application.

If there are any questions or if further information is needed, please contact Elliott Laboratories for assistance.

Sincerely,


Mark Briggs
Staff Engineer