

Elliott Laboratories www.elliottlabs.com

684 West Maude Avenue Sunnyvale, CA 94085-3518 408-245-3499 Fax

408-245-7800 Phone

American TCB 6731 Whittier Avenue, Suite C110 McLean, VA. 22101

To whom it may concern:

The enclosed documents constitute a formal submittal and application for Equipment Authorization for a WLAN module pursuant to the following rules:

Subpart B of Part 15 of FCC Rules (CFR 47), Class B PC Peripheral Devices Subpart C of Part 15 of FCC Rules (CFR 47), DTS Devices Subpart E of Part 15 of FCC Rules (CFR 47), UNII Devices RSS-210, Issue 7, June 2007, "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment"

The module supports 802.11 legacy modes in 5 operating bands (2400 - 2483.5 MHz, 5150 - 2483.5 MHz)5250MHz, 5250 – 5350MHz, 5470 – 5725 MHz and 5725 – 5850MHz) operating in a single chain (1x1) mode. It also supports 802.11n 20MHz and 40MHz channels in 1x, 2x and 3x modes. The test report covers all possible combinations of single-, dual- and triple-chain operating modes.

The device does not use active scanning for channels 12 - 14 in the 2.4GHz as detailed in the operational description.

The modular approval is requested for OEM-installation only into host systems that are designed for mobile (not portable) use. Future permissive changes may add specific portable host systems.

Two antennas are covered in this filing, one a magnetic dipole and the other a PIFA antenna:

- Ethertronics MPCI-8 Module antenna which is based on a magnetic dipole design. The nominal antenna gain is 3dBi in the 2.4GHz band and 5dBi in the 5GHz bands
- Universe Technology antenna which is based on a PIFA design. The nominal antenna gain is 3.2 dBi in the 2.4GHz band, 3.6dBi in the 5150-5250 MHz band, 3.7dBi in 5250-5350MHz band, 4.8dBi in the 5470 – 5725 MHz band and 5dBi in the 5725 – 5850MHz band.

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

Principal Enginee

MB/dmg