

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

April 8, 2010

IC CERTIFICATION #s: 1000M-622ANHU, 1000M-622ANH
FCC IDs: PD9622ANHU, PD9622ANH

To whom it may concern:

The enclosed documents constitute a formal submittal and application for a Class II Permissive change / Reassessment for a U-NII/DTS wireless LAN module pursuant to the following rules:

Subpart E of Part 15 of FCC Rules (CFR 47), UNII Devices
Subpart C of Part 15 of FCC Rules (CFR 47), 15.247
RSS-210, Issue 7, June 2007, “Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment”

The module was approved under three separate rule parts – DTS (2.4GHz and 5.7GHz bands), NII (5250-5250, 5250-5350 and 5470-5725 MHz bands) and JBP (PC peripheral). The proposed change is to add a new antenna set consisting of two coupled antenna, model numbers Yageo p/n 79010C500-011-G and p/n 79010C400-011-G. As the new antenna s are of a different type to the PIFA antennas originally approved with the device a full set of radiated emissions in each operating band has been performed.

Antenna Name and model	Type	Antenna Gain (dBi)				Comments
		2.4GHz	5.2GHz	5.5GHz	5.7GHz	
Universe Technology PIFA Main and Aux	PIFA	3.24	3.73	4.77	4.97	Original Antenna
Yageo p/n 79010C500-011-G Main	PIFA	0.95	-1.06	-0.21	1.05	Proposed new antenna set
Yageo p/n 79010C400-011-G Aux	Couple	-0.26	1.4	0.85	-0.15	

As the maximum output power ratings have not been changed the original antenna port conducted measurements for power, power spectral density, bandwidth, peak excursion and spurious emissions remain valid.

The proposed change does not affect the characteristics of the digital device (PC peripheral) reported in the original filing under equipment code JBP, therefore no C2PC is being submitted for the JBP portion of the device.

As this is a request for a Permissive Change / Reassessment the only documents being uploaded are the application forms, test report, rf exposure calculation and antenna information (submitted as part of the operational description). All other documents originally uploaded remain unchanged. American TCB handled the original Industry Canada assessment and should have all the relevant documents on file covering operation in the other bands. Please advise if any of the previous documentation is required to allow you to complete this re-assessment.

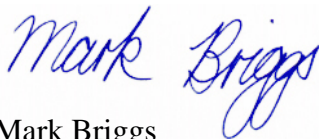
Please also note that the frequency ranges and output power ratings detailed in the application forms for both FCC and Industry Canada match the values detailed in the original grants and certificates.

Although the MPE calculation remains unchanged (the highest antenna gain in all bands is one of the original antennas) the calculation and RSS-102 form have been uploaded to explain that this is the case.

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

MB/dmg