



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

January 12, 2009

RE: ATCB007180 – Original Equipment Certification

FCC ID: TE7WN350GX for TP-Link Technologies Co., Ltd.

I have a few comments on this Application. Please **do not put confidential information** in your responses to these questions because the response letter will not be held confidential by the FCC. Depending on your answers there may be more questions.

1. The operational description and schematic diagram in the application indicate that this device uses 2 antennas for diversity but the user manual, test report and photos indicate 1 antenna is used with this device. Please address this discrepancy.
2. The specifications on page 25 of the user manual for this device state that the typical output power is 15 dBm (31 milliwatts) but the test report and application show an output power of 22.3 dBm (171 milliwatts) for this device. Please address this 7.3 dB discrepancy.
3. The operational description states the antenna gain for this device is 2.0 dBi but the test report states that the antenna gain is only 1.8 dBi. Please address this discrepancy.
4. For Your Information – In the submitted test report, the resolution bandwidth used for the antenna conducted measurements for Section 15.247(d) of the FCC Rules was 1 MHz not 100 kHz as specified in KDB558074 and the FCC Rules. Using a different bandwidth that that specified will affect the level of the fundamental and all other emissions in a manner that the FCC cannot be sure the correct aspect ratio of -20 dB is maintained. Please follow the FCC accepted test procedure in KDB558074 in future applications to avoid delays in obtaining equipment authorization. Based on good engineering judgment I am not requiring this test to be measured correctly because the reported emissions are at least 35 dB below the prescribed limit.
5. For Your Information - The Equipment Code entered in Section III, Item 4(a) of the application form for this device should be DTS not DSS. DSS is used for frequency hopping spread spectrum transmitters while DTS is used for direct sequence spread spectrum transmitters. Please make a note of this for future FCC applications. I will correct equipment code on the FCC application form when I file it with the FCC.

Richard Tolson

Richard Fabina

Examining Engineer

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.