

TIMCO ENGINEERING INC.

TCB & FCB

849 NW State Road 45

FCC Approvals

Newberry, Florida 32669

Canada Approvals

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Notified Body for Europe

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Industry

10/27/2006

MR. WU XUEWEN

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SUBJECT: TECHFAITH WIRELESS COMMUNICATION TECHNOLOGY LIMITED
- FCC ID: UJQ-06378T

REFERENCE: JOB 2958CC6

Dear Sir,

Please review my answer below:

1. Enclosed you will find the revised confidentiality request letter. Attached file: "Confidentiality Request Letter_Rev2.pdf"
2. Attached file: "Block diagram_Rev1"
3. OK, thanks very much.
4. Form731 is revised.
5. Attached file: "Form731_bluetooth.pdf"
6. updated, see attached file: "Form731_GSM.pdf"
7. answer 5. above
8. Attached file: "Form731_WiFi.pdf", only 802.11g used for this device
9. Attached file: "Form731_Part15B.pdf"
10. WLAN transmitter does not operate simultaneously with the GSM/GPRS transmitter.
You will find the statement on page3 of revised user manual.
Attached file: "user_manual_Rev1.pdf"
11. Please review page14 of the revised report.
Attached file: "SAR report_Rev1.pdf"
12. You will find the description on page 17, the item 7.1, the distance between phantom and Back of device is 1.5cm.
13. Attached file: "Internal photos_Rev1.pdf"
14. Attached file: "06 calibration data.zip"
15. See test report page 32(table) and 33(delta marker plot). Attached file: "WiFi report_Rev1.pdf"
16. FCC report chapter 6 "Peak output Power" was according to "Option 1" of "KDB Publication No. 558074". Because the maximum RBW of the receiver ESIB26 (10MHz) is less than the 6dB Bandwidth of the EUT (16.25MHz), I used a peak power meter.

FCC report chapter 9 "PSD" measurement used "Option 1" correspondently.
For IEEE 802.11g (OFDM), the spectrum line spacing is 312.5kHz (16.25MHz BW / 52 sub-carriers). So 3kHz RBW is OK.
17. Attached file: "Technical Specification_Rev1.pdf".

Wu Xuewen

MORLAB

:::CCC | CE | FCC | ROHS | EMC | UL | GS | JATE | Bluetooth:::

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发件人: Bruno Clavier [mailto:bruno@timcoengr.com]

发送时间: 2006 年 10 月 28 日 1:52

收件人: xuewen.wu@morlab.cn

主题: follow up with DTS and DSS questions - TIMCO-TCB/Request for additional info -
TECHFAITH - FCC ID: UJQ-06378T

重要性: 高

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Dear MR. XUEWEN:

This application is on hold until these questions are resolved. Please answer all question(s) together and only respond to tei@timcoengr.com. Any other method will cause **unnecessary delay. DO NOT HIT REPLY!** Responses should also contain the Reference information, as shown at the top of this message. If acceptable response is not received within 2 week the job will be closed & there will be additional charges to reopen.

Based upon our review of this application we have the following questions:

1. The confidentiality request letter identifies 4 line-items – one of which is combined with a 5th item (parts list/tuneup procedure are separate items). There are a total of 7 files submitted as confidential. Please resubmit a confidentiality request letter that identifies each of the 7 files by both category (eg: “block diagram”, “operational description” etc.) and exact filename.

For example: Operational Description – “circuit description for fcc.pdf”

Operational Description – “Description of frequency stabilization & suppression circuits.pdf”

Operational Description – “Technical Specification.pdf”

Etc...

2. The FCC requires block diagrams to identify the frequency of all clocks and oscillators. Please resubmit a block diagram with this information.
3. Once we have completed our review of this application we will upload all of the files to the FCC Website including the confidential ones and we will stop before we issue the Certification and send you the TC # so that you can view the files as they will appear on the FCC website before they become public. After you have checked them out you are to send us an email indicating that they are OKAY or telling us what is wrong. After you have confirmed everything is correct then we will issue the Certification.
4. The block diagram shows a Bluetooth and WiFi device included in this device. This filing was only requested for the part 22/24 transmitter. Please explain compliance of the Bluetooth and WiFi devices.
5. The application contains a Bluetooth test report. This product is a composite device. Please submit a second application form 731 for the Bluetooth device (please use the class DSS in item 10. and complete item 12. a Yes and 12c “is in the process....” And list the FCCID in the requested field.
6. GSM 731 form: Please revise item 10. as for questions 5. above.
7. The B.O.M. list a Bluetooth chip and a WLAN 11bg module. Please explain or revise based on question 5. above.
8. If this device contains a WiFi 11bg transmitter, please provide a third 731 form with item 10. equipment class DTS. Please explain.
9. Part 15B test report: This device can connect to a computer. Therefore, it is considered a computer peripheral. Computer peripheral are approved under the Declaration of Conformity procedure or Certification. The only available route for compliance of this device is the Certification process under part 15B, because

- test lab in China are not recognized under MRA with the USA. Please submit a 731 form for this JBP device (item 10) and complete item 12 as well.
10. SAR and EMC: Please explain co-transmission (simultaneous operation) of the BT, WiFi, and GSM/GPRS device. If these devices transmit simultaneously, please explain the following:
- 10.1 EMC/RF part 22/24 and 15.247: Were radiated spurious emissions (including intermodulation products) tested in simultaneous mode. If so, please include statement of compliance in relevant EMC/RF test reports.
- 10.2 SAR: It was only evaluated for WiFi + GSM/GPRS mode. If applicable, please explain SAR compliance for BT+ WiFi and BT+ GSM/GPRS modes.
- 10.3 For example, if the WLAN transmitter does not operate simultaneously with the GSM/GPRS transmitter, please provide a statement/explanation in the test report (or cover letter) as to why the user is not capable of using both transmitters at the same time.
11. SAR section 4.2.5.2: Please express validation data with a unit (W/kg or mW/g)
12. SAR body position: Please indicate the separation distance to the flat phantom. Also, please indicate whether this is the “front” or “back” of the phone.
13. Internal photos: Please indicate the location of the antennas for GSM, BT, and WiFi using visuals or callouts.
14. SAR report: Please provide calibration data for the measuring probe and dipole calibration kit.

Additional items as indicated in my previous correspondence.

15. WLAN 802.11bg – band-edges: Please provide test data showing compliance with the restricted band above 2483.5MHz. (use the marker delta method specify in DA00705 as method of measurement to show compliance).
16. PSD and Peak output power: Please see attached document from the FCC. Please indicate which method of measurement or “Options” was used to measure the peak output power and the PSD according to the attached document.
17. Technical specifications exhibit: The RF output power is reported to be 794-1Watt EIRP for 1900MHz band and 1258-1584mW for 850mWEIRP in the 850MHz band. These power levels are not consistent with the levels measured in the test report and listed on Form 731 (514mW (850M)and 500mW EIRP (1900M)). Please revise.

Sincerely,

Eric Dobson
& Bruno Clavier