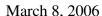


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American TCB 6731 Whittier Ave. Suite C110 McLean VA. 22101

Elliott

Reference: FCC ID: JUP-55800 and Industry Canada: 1756A-55800

Gentlemen:

The enclosed documents constitute a formal submittal and application for a Grant of Equipment Authorization pursuant to Industry Canada RSS 210 and Subpart C of Part 15 of FCC Rules (CFR 47) regarding intentional radiators. Data within this report demonstrates that the equipment tested complies with the FCC and Industry Canada limits for intentional radiators and receivers.

The scope of the certification is for the Trimble part number 55800-00 (a GPS receiver unit with Bluetooth transceiver) sold under the Trimble model numbers SPS850, SPS750 and SPS550. The different model numbers refer to software-enabled options related to GPS positioning that allow access to features such as different GPS bands, data logging capabilities and CMR (GPS data packet) input and output.

Note that the base unit is also sold with an optional 400 MHz licensed transceiver installed in the device. The model numbers for the options are 55800-62, 55800-64, and 55800-66, all three available are available in the US and only the first and last are available in Canada. As the optional transceiver has modular approval from both FCC and Industry Canada, and is being used within the scope of its approval, this application for the Bluetooth transceiver does not address the 400 MHz transceiver operation.

Although the Bluetooth transceiver has FCC modular approval (FCC ID: Q23 31307), Trimble are using an antenna that is not included in the scope of that modular approval. For this reason the application for FCC ID JUP-55800 includes assessment of both Bluetooth and 900 MHz frequency hopping operation.

Compliance of the Bluetooth transceiver is to be demonstrated using the original grant covering modular approval plus a test report covering all aspects of the device operation with the Trimble antenna. This test report covers testing with the device tested as a module, outside of a host enclosure.

As the quantity of files to support this application is large, they are listed here.

Letters Cover Letter for BT.pdf

> FCC Agent Authorization_SPSx50.pdf IC Listing acknowledgement_Trimble

SPSx50.pdf

MDS TRM450 IC Grant.pdf IC cert for 400MHz TRX

Clarification of model names and 1756A-55800 Model Names2.pdf

similarities

Response to first series of questions ATCB Response 022706.doc

raised by ATCB

Response to second series of ATCB Response 030606.doc questions raised by ATCB

Clarification of model names and

similarities

SPSx50 & NetR5 Models and Part

Numbers.doc

Letter of Confidentiality.pdf

Forms ATCB Agreement form_Trimble SPSx50.pdf

IC Application UPN 1756A-55800.pdf

ATCB Form 731 55800.doc

Contains the correct model number to

be listed

Reports Bluetooth report.pdf Test report for Bluetooth module with

Trimble 4dBi antenna

R61810 _IC only_revised.pdf Report for GPS and Bluetooth

receiver

Test Bluetooth Test Photos.pdf Tests et up for the bluetooth module

Photographs Test Configuration Photographs.Pdf

AC conducted emissions set-up for

complete device

External Photos External pics.pdf

Internal Photos Bluetooth 1 of 3.jpg

Bluetooth 2 of 3.jpg Bluetooth 3 of 3.jpg

SPSx50 55800-90 back panel.jpg SPSx50 front panel assembly.JPG SPSx50 Main Board back.jpg SPSx50 Main Board front.jpg

Block Diagrams Infineone PBA 31307 Bluetooth Module

Block Diagram.pdf

Main System Blk Diagram.pdf

Bluetooth block diagram

Main block diagram, including GPS

receiver

Label 55800-00 Label.pdf Label for base system (Bluetooth Information

TRX)

Label for models with optional 400 55800-6X Label.pdf

MHz TRX module installed

RF Exposure

MPE Calculation BT only.pdf

Information

RSS102 form.pdf

SD-B-R4.pdf

MDS TRM450 RSS 102 RF Hazard Eval.pdf RSS 102 form for 400MHz TRX

Schematics

SPSx50 Schematics main board 55212-XX-

Includes Bluetooth module

Manuals

SPSx50 User Manual Addendum.pdf

SPSx50 ModularGPSRcvr UserGuide pt 1

SPSx50 ModularGPSRcvr UserGuide pt 2

of 2.pdf

Operational Descriptions Infineone PBA 31307 Bluetooth Module

Product Spec.pdf

Infineone PBA 31307 Bluetooth Module Product Specification sheet

Note that a separate application will be submitted for both Industry Canada and FCC certification for part number 55800-90 (the base unit with Bluetooth transceiver and an optional 900 MHz FHSS transceiver) under FCC ID JUP-5580090 and IC # 1756A-5580090.

Elliott Laboratories, as duly authorized agent prepared this submittal. A copy of the letter of our appointment as agent is enclosed. If there are any questions or if further information is needed, please contact Elliott Laboratories for assistance.

Sincerely,

Mark Briggs

Principal Engineer