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March 8, 2006

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6731 Whittier Ave.
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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
	1756A-55800 Model Names2.pdf	Clarification of model names and similarities
	ATCB Response 022706.doc	Response to first series of questions raised by ATCB
	ATCB Response 030606.doc	Response to second series of questions raised by ATCB
	SPSx50 & NetR5 Models and Part Numbers.doc	Clarification of model names and similarities
	Letter of Confidentiality.pdf	
Forms	ATCB Agreement form_Trimble SPSx50.pdf	
	IC Application UPN 1756A-55800.pdf	Contains the correct model number to be listed
	ATCB Form 731 55800.doc	
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 Photographs	Bluetooth Test Photos.pdf	Tests et up for the bluetooth module
	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	Bluetooth block diagram
	Main System Blk Diagram.pdf	Main block diagram, including GPS receiver
Label Information	55800-00 Label.pdf	Label for base system (Bluetooth TRX)
	55800-6X Label.pdf	Label for models with optional 400 MHz TRX module installed

RF Exposure Information	MPE Calculation BT only.pdf	
	RSS102 form.pdf	
	MDS TRM450 RSS 102 RF Hazard Eval.pdf	RSS 102 form for 400MHz TRX
Schematics	SPSx50 Schematics main board 55212-XX-SD-B-R4.pdf	Includes Bluetooth module
Manuals	SPSx50 User Manual Addendum.pdf	
	SPSx50_ModularGPSRcvr_UserGuide pt 1 of 2.pdf	
	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