Modular / Limited Modular Approval Request

Date: 7/25/11

Company: Saris Cycling Group Inc.

Request for: ☒ Modular Approval   ☐ Limited Modular Approval

☐ Mobile Device   ☒ Portable Device

Product Name: Powertap 3
Model Number: Powertap 3
FCC ID: T8P-TT3G3
IC ID: 6459A-TT3G3

Device Description: Antenna module for bicycle power measurement system.

The requirements of FCC Code of Federal Regulations Title 47 Part 15.212 and Industry Canada's RSS-Gen Issue 3 (12-2010) Section 3.2 have been met as shown below:
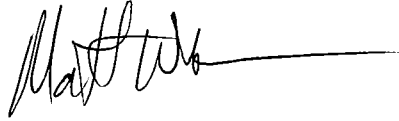
FCC & IC Modular Approval Checklist:

Modular approval requirement	Yes	No
(a) The radio elements must have the radio frequency circuitry shielded. Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly.	☒	☐
Explanation: The RF circuitry is fully enclosed with an RF shield. Please see internal photos.		
(b) The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable RSS standard under conditions of excessive data rates or over-modulation.	☒	☐
Explanation: The data inputs are buffered in chip U1.		
(c) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.	☒	☐
Explanation: The RF IC, chip U3, has its own built-in power supply regulation.		

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Modular approval requirement	Yes	No
(d) The module shall comply with the provisions for external power amplifiers and antennas detailed in FCC Part 15.203, 15.204(b) & 15.204(c) and RSS-Gen Issue 3. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.	☒	☐
Explanation: The module contains an integrated PCB trace antenna. No additional power amplifiers or external antenna connections are possible.		
(e) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing.	☒	☐
Explanation: The module will be tested in a stand-alone configuration with a typical power supply and host board. Please see photos of test configurations.		
(f) The module must be labeled with its own FCC ID number and shall comply with Industry Canada's Category I equipment labeling requirements.	☒	☐
Explanation: See Drawing XXXXX for label information. The label of this module will be externally visible in most applications. See Spec XXXXX for additional labeling instructions. FCC:T8P-TT3G3 IC: 6459A-TT3G3 Saris Powertap 3 RF Module Label NA		
(g) The module shall comply with applicable FCC & Industry Canada RSS-102 exposure requirements, which are based on the intended use/configurations.	☒	☐
Explanation: The EUT is compliant with all applicable RF exposure requirements. RF Exposure is addressed in the RF exposure exhibit. In the Test Report		
(h) Is the modular device for an Industry Canada licensed exempt service?	☒	☐
Explanation: Yes, it is a Category I License-exempt Radio Apparatus that does not require licensing for use.		
(FCC - additional) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	☒	☐
Explanation: The EUT is compliant with all applicable FCC and Industry Canada rules. The module is intended for internal use by the manufacturer for integration into products. The module will not be for sale unless integrated into a product.		

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Please contact me if you have any further questions. Thank you for your attention to this matter.

Regards,

Name of responsible person: Matthew Wilson
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