



Date: January 30, 2008  
FCCID: Q72CS231C1GEN2

Federal Communications Commission  
Authorization and Evaluation Division

Cover Letter: Application for modular transmitter approval

Persuant to the FCC Public Notice DA-00-1407 for Part 15 Unlicensed Modular Transmitter approval the following information is provided:

- 1) **PN DA 00-1407 Page 2 Item 1: The EUT must have its own RF Shielding and be a complete RF transmitter. The EUT must not rely upon the shielding provided by the device into which it is installed for RF shielding.** The radio portion of this module has its own metal shield. It was tested without relying on shielding provided by other devices, please see test photo in exhibition.
- 2) **PN DA 00-1407 Page 2 Item 2: The EUT must have buffered modulation/data inputs.** Data input buffers are integrated in IC AT91SAM7S256
- 3) **PN DA 00-1407 Page 2 Item 3: The EUT must have its own power supply regulation and VCO built-in.**  
Power regulator IC LTC3533 converts 4.2VDC to 3.3VDC for operation. Power regulator IC LTC3561 converts 4.2VDC to 1.8VDC for operation. Power regulator IC AIC1848 converts 4.2VDC to 5VDC for operation. VCO is built-in the Chip WGR1000B.
- 4) **PN DA 00-1407 Page 2 Item 4: The antenna must either be permanently attached or employ a "unique" antenna connector. Any antenna used with module must be approved with the module at time of initial authorization. Professional installation provision may not be applied to modules regarding use of any other antenna other than the one authorized at the time of Certification of the module.**  
The EUT meets the FCC antenna requirements. Its antenna is connected by a unique connector to the module.
- 5) **PN DA 00-1407 Page 2 Item 4: Any antenna used with the module must be approved with the module.**  
This module is submitted for approval based on a CS713 antenna.
- 6) **PN DA 00-1407 Page 2 Item 5: The modular transmitter must be tested in a stand-alone configuration. i.e., the module must not be inside another device during testing.**  
The EUT was tested in a stand-alone configuration. Its input was connected to a notebook host via a fixture, the entire EUT was exposed and not enclosed inside another device. Please see Photographs section of Test Configuration in the test report.
- 7) **PN DA 00-1407 Page 2 Item 5: Unless the module is battery powered, it must comply with the AC line conducted requirements found in Section 15.207.**  
The EUT was tested to comply with AC line conducted requirement 15.207.
- 8) **PN DA 00-1407 Page 2 Item 5: AC, DC, and data input/output lines must not contain ferrites, unless they will be marketed with the module.**  
No additional filter/ferrite was employed in the test.



**CHUNG NAM  
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- 9) **PN DA 00-1407 Page 3 Item 6: The module must have its own FCC ID and if not visible when installed inside another device, the outside device must display a label referring to the enclosed module. In this case, a copy of the instructions must be included in the application for equipment authorization.**  
Please see exhibition for FCC ID label attached to this module. User's Manual contains the instructions to the OEM on how to display a FCC label outside the end product if the module is not visible from outside.
- 10) **PN DA 00-1407 Page 3 Item 7: The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and must provide ADEQUATE instructions along with the module to explain any such requirements.**  
The EUT complies with all applicable FCC rules. Detailed instructions for maintaining compliance are given in the Users Manual.
- 11) **PN DA 00-1407 Page 3 Item 8: The module must comply with RF exposure requirements. See FCC Rules. Spread Spectrum transmitters must comply with RF exposure limits in 15.247.**  
The EUT complies with all applicable RF exposure requirements. RF Exposure is addressed in the RF exposure exhibition.
- 12) **PN DA 00-1407 Page 4: When approved, the grant of equipment authorization for the transmitter module MUST have the word "module" or "modular" added to the Remarks section of the grant.**  
Yes, please add the "Module" keyword to the Remark section of the grant.

Sincerely,

A handwritten signature in black ink, appearing to read 'Simon Au'.

Simon Au  
Chung Nam Electronics Co., Ltd.