

On-Ramp Wireless, Inc.
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IC: 8655A-ULPAP110
Model: ULPAP110

Attn: Reviewing agency or TCB
Re: Modular Approval Requirements

I certify that the module meets all of the technical specifications applicable to the frequency band of operation.

1. The module contains a shield. The shield is comprised of two parts; a shield fence and a shield cover. The shield is located on the top side of the eNode printed circuit assembly and completely encloses the digital and RF sections of the eNode. A small star shaped hole in the RF section enables the eNode MMCX RF connector to protrude through the shield. Each finger of the star shaped hole makes physical contact with the MMCX connector for improved RF shielding. The shield fence and cover are made of steel with Electrolytic Tin Plate (SPTE).
2. All modulation and data inputs are buffered on module. The buffering is provided by the AT91SAM7XC256-CU component U201 on the schematic.
3. The module has its own power supply regulation and local reference oscillator. Power supply regulation is provided via regulator components U800, U802, U803, U805, U807, and U906 on the schematics. All power supply voltages are generated from a single external battery supply. A frequency reference for the module is provided by a TCXO – component U804 on the schematics.
4. The module connects to its antenna via MMCX connector.
Antennas are;
5dBi Antenna NEARSON Part # S151FL-L-RMM-2450S
2dBi Antenna NEARSON Part # S181FL-L-RMM- 2450S
1dBi Antenna Hyperlink Technologies Part # HG2401RD-MMCX
5. For Industry Canada, the module meets certification labeling requirements.
6. The host device and all the separately certified modules it contains jointly meet the safety requirements of RSS-102.
7. The host device complies with the certification labeling requirements of each of the modules it contains.

8. The module is appropriately labeled.
9. The modular transmitter has been tested in a stand-alone configuration with On-Ramp Engineering Board and module complies with FCC Part 15 emission limits. The module is dc powered / battery powered.
10. For the FCC, the modular transmitter has been labeled with its own FCC ID number
FCC ID: XTE-ULPENODE110
IC: 8655A-ULPENODE110
11. RF exposure requirement:
The module meets the requirements for a mobile device that may be used at separation distances of more than 20cm from the human body.

Dated the 31 of May, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read "Dean Barnat", written over a horizontal dotted line.

Dean Barnat
VP of Operations
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