



Modular Approval Request Letter

FCC ID: SU3RM900A

Data: **December. 15, 2011**

Gentlemen:

There's a RM900A (RAEMesh Radio Module) that would like to have your authorization as a modular approval. The specific product as below, RM900A, with its designed features and specified description, meets special requirements for full modular approval on FCC Public Notice DA 00-1407 Released: June 26, 2000 by cross-reference list below.

Company	: RAE Systems, Inc
Model Name	: RAEMesh Radio
Model Number	: RM900A
FCC ID	: SU3RM900A

Requirement of Public Notice DA00-1407/ Part 15.212	
1. The modular transmitter must have its own RF shielding.	The module has its own RF shielding. Please see external photo.pdf
2. The modular transmitter must have buffered modulation/data inputs.	RM900A has only digital I/Os for data input or output. All these I/Os are buffered. Refer the schematic.pdf
3. The modular transmitter must have its own power supply regulation.	All power lines derived from the host device are regulated before energizing other circuits internal to the RM900A. Please see schematic.pdf
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The RM900A meets the FCC antenna requirements. It has a unique MMCX connector and need special cable to connect to antenna
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 RM900A was tested in a stand-alone configuration. Please see conducted set-up photo.pdf and spurious set-up photo.pdf
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	The label position of RM900A is clearly indicated. Please see the "RM900A FCC label.pdf"
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the 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.	The RM900A is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see users manual.pdf
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).	The RM900A comply with applicable RF exposure requirements. Please see RF safety evaluation. pdf

Thank you.

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