



## Modular Approval Request Letter

**FCC ID: SU3RM900-01**

**Data: 2016/08/30**

Gentlemen:

There's a RM900 (RAE Mesh module) that would like to have your authorization as a modular approval.

The specific product as below, RM900, with its designed features and specified description, meets special requirements for full modular approval on FCC Public Notice KDB996369 Released: October 31, 2013 by cross-reference list below.

Company	: RAE Systems Inc
Model Name	: RAE Mesh module
Model Number	: RM900
FCC ID	: SU3RM900-01

Requirement of KDB996369	Reference to
1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly;	The module has its own RF shielding.
2. The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;	The RMWiFi has only digital I/Os for data input or output. All these inputs are buffered in MCU. Please see the schematic.pdf.
3. The module must contain power supply regulation on the module;	The RMWiFi contains power supply regulation chip (U5) on the module. Please see the SU3RMWiFi-M3_SCH.pdf.
4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);	The RMWiFi meets the FCC antenna requirements. It has a unique MMCX connector and need special cable to connect to antenna.
5. The module must demonstrate compliance in a stand-alone configuration;	The RMWiFi was tested in a stand-alone configuration.
6. The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements);	The label position of RMWiFi clearly indicated. Please see the "SU3RMWiFi_FCC label.pdf".
7. The module must comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee;	The RMWiFi is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see users manual.pdf.
8. The module must comply with RF exposure requirements.	The RMWiFi comply with applicable RF exposure requirements.

Thank you.

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