# Modular Request Letter

Arch Rock is seeking modular authorization for the RMB-3000 IEEE 802.15.4 Network interface (FCC ID: U3SRMB3000R1). The device meets the requirements as set forth in FCC Public Notice DA 00-147. Compliance to each of these requirements is detailed below:

1. The modular transmitter must have its own shielding.
   *The RMB-3000 has shielding over all its radio components.*
2. The modular transmitter must have buffered modulation/data inputs.
   *All data inputs/outputs are buffered via the incorporated microcontroller. No direct access to the radio is available.*
3. The modular transmitter must have its own power supply regulation.
   *Power supply regulation is provided by the internal 1.8V regulator on radio chip itself. (ref. CC2420 Datasheet pgs. 50-51)*
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).
   *The RMB-3000 has a single U.FL connector as the only antenna connector to the device.*
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing.
   *Power is applied to the RMB-3000 via a test fixture and the device is fully exposed. Control/power for the RMB-3000 is via an 8 pin low-profile connector on the PCB.*
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 RMB-3000 will have a label which includes the FCC ID on the device itself.*
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.
   *Installation and operation of the RMB-3000 is provided via the datasheet and user manual.*
8. The modular transmitter must comply with any applicable RF exposure requirements.
   *The RMB-3000 complies with all applicable RF exposure requirements including those in DA 00-1407.*

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