

May 6, 2013

Re: FCC ID: QC8-RDL3000RMF
Applicant: Redline Communications Inc.
Correspondence Reference Number: 43762
Form 731 Confirmation Number: EA143802
Date of Original E-mail: 04/29/2013

Dear Mr. Chen,

Responses to the email:

Email 3. Please describe in more detail the "key" used in determining regulatory domain and operating parameters such as channels, power levels and bandwidth options.

<rdl> Redline uses a secure "region key" to enforce regulatory restrictions for the different products shipped to the different countries. This key can only be generated by certified Redline personnel or approved affiliates, trained and certified in the use of the secure key generation tool.

These region keys are derived from a proprietary encryption/decryption algorithm that is forty hexadecimal characters in length.

As mentioned in previous correspondence, if the unit has no key then it cannot transmit and simply sits in receiver idle mode.

The key controls:

- Selection of country code hard coded in the software, which enforces:
 - Frequency of operation
 - Maximum transmit power
 - WSDB requirement
 - Channel size
 - Channels or frequency ranges blocked
- Modulation levels
- Mode of operation – master or client
- Encryption level
- Other product features based on commercial requirements

4. Please describe in more detail the "key" used in determining the master or client configuration as well as other information requested in my 4/17 inquiry (Issue #8).

[8. The application appears to have the intent that the same module FCC ID will be used by both the master implementation and the client implementation. Please provide detail on how the master/client configuration or setting is done as well as when this divergence takes place (at design, during production, or in the field and by whom). You are advised to consult KDB 594280 on FCC policy concerning programmability of certificated devices.]

<rdl> As mentioned in above response, the master/client mode of operation is set by the software region key. The divergence takes place at the time of sale. Based on the country of the end-user, the serial number(s) of the unit(s) are electronically transferred from the warehouse to the certified personnel responsible for the generation of the software key. The order is reviewed, validated and the serial numbers are entered in to the keygen tool database to be generated per the required configuration. The key(s) are then emailed to the end-user to be entered in to the specific units.

If there is no key present, then the unit stays in client mode in an idle state.

Sincerely,



Rod Cronin
Director, Product Management