

To: Joe Dichoso

Re: FCC ID: KL7-650MR-V2

Applicant: Savi Technology Inc
Correspondence Reference Number: 20993
731 Confirmation Number: TC734992
Date of Original Email: 06/16/2005

Dear Mr. Dichoso,

Here are our answers to the questions you provided on 16 June 2005 regarding our Savi Mobile Reader.

1) What is the sequence of transmissions?
Is it wake up, hello, data, then sleep?

Response:

(1.) In the case of the Batch Collection Operation the sequence is:

- a. Wakeup 2.4 secs duration on the single antenna in this hand held device.
- b. Hello 10 msec duration after 90 msec silence.

Total transmission time less than 5.0 seconds then ceases.

(2.) The Sleep Operation is a separate activity initiated by a Tag requesting service by sending its ID and being logged in a Service Queue. Once the responses from the Tags have been logged in a Service Queue, the Sign Post Reader is then automatically triggered by the arrival of these Tag IDs to transmit a Sleep packet to each Tag as it appears in the queue. Each transmission to a tag lasts 10 msec.

(3.) In the case of a Tag Data Write Operation to the Tag from a Mobile Reader the sequence assumes the tag is awake. The Mobile Reader sends a Tag Data Write packet to the Tag which acknowledges receipt if present and awake. If not present and awake, the Mobile Reader wakes up the desired tag and performs the Tag Data Write operation. In this case, the Tag automatically goes back to sleep 30 seconds after the last activity without any further operation by the Mobile Reader.

Are the wake up and hello transmissions manually activated individually or are they all activated together?

Response: The wake-up and hello are manually activated together.

How is the data signal activated?

Response: As described above in item (3), the Operator enters the Tag Data Write command through the keyboard and the Hand Held Computer Software and Mobile Reader Firmware perform the required operations automatically.

What is the time between each different type of transmission in the sequence?

For instance, what is the time between, the wake up signal and the hello signal?

Response: 90msec between the end of the Wakeup and the beginning of the 10 msec long Hello signal is used in the Batch Collection Operation.

What is the time between the hello signal and the data signal?

Ans: the Hello signal is not used for Point-to-Point data transactions.

What is the time between the data signal and the sleep signal?

Ans: A sleep signal is not sent from the Mobile Reader to the Tag for Point-to-Point transmissions such as data transmission to the tag or a command that the tag send data (other than its ID) to the reader. The tag automatically goes to sleep after 30 seconds.

There are several types of transactions between the Mobile Reader and Tags, three of which are summarized above. It is difficult to cover all operational cases by e-mail. More detail and clarity can be provided if desired.

Additionally, we enclose a 1992 theory of operation along with a letter from the Technical Standards Branch, stating that the 1992 concept of operations appears to comply with 15.231. This product was tested and a grant issued.

Hopefully, this information assists a better understanding of how Savi products operate.

Please let us know what additional information you need.

Yours truly,

Rod Thorne
Vice President, Hardware Engineering
Savi Technology, Inc.