

# Re: RFID reader design

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- *From:* Rene Tschaggelar <[none@xxxxxxx](mailto:none@xxxxxxx)>
  - *Date:* Thu, 18 May 2006 11:34:24 +0200
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Alchemist wrote:

I am trying to build a RFID reader for passive RFID tags like <http://availabletechnologies.pnl.gov/securityelectronics/rftagsdescription.stm>. These tags has got read/write range upto 10m.

My reader must be capable of reading tags at a minimum distance of 6m( also the maximum).

I got few questions regarding this

- 1) Is it possible to read passive tags at a distance of 6m
- 2) Is it possible to build this reader.
- 3)What would be the size of reader
- 4)What would be the power requirement of this reader
- 5)Is it possible to detect direction and distance of RFID tag from the reader

From my experience with 15MHz passive tags, the reach is about the diameter of the stationary antenna. Also note that the field must not exceed a certain field strength.

Rene

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