TagSense Help File

Hardware connection:
1. Connect the USB cable and the antenna’s SMA female connector to the reader like the image shown below before making a connection to the PC’s USB port. If you connect the power before connecting the antenna or disconnect the antenna before turning off the power, you may damage the reader.

2. The reader’s LED will blink for a short period of time while connecting to the PC.
3. Place the antenna perpendicular to the table so that you could get a good range of tag access. Sometimes if the antenna lies flat on the table, the reader does not function properly.

Software:
There are two software tools to communicate with the reader. They are “Reader Control Panel” and “TagSense Studio”. The former software comes with the reader. The latter was developed for testing purpose.

Reader Control Panel:
1. Click on the Reader Control Panel icon on your desktop and the PC will bring up the program like the following screenshot.
2. Click on the “Com Port” selection on the top menu, a window will then appear and show the available connections from Com 1 to 16. Click on the highlighted Com text message. Sometimes you may have more than one Com port connection, so you have to try out each connection unless you know which Com port has been used for the reader.

3. You may or may not pick the right connection. Therefore, you have to let the reader read a tag with continuous polling mode, which is locating at the bottom right on the previous image.

4. If you could see a tag’s contents showing on the middle of window, it means you have successfully connected to the reader. Otherwise, you have to click on “Disconnect” button located on the upper right and repeat process 2.

5. On the Control Modes (bottom right), you may want to change the continuous polling to manual polling mode because you want to stop auto read process while you try to write data to the tag.

6. Click on Write EPC Code
   A new window will pop up as the image shown
As you explore other functions, you will find similar input fields.

**Select Tag:**

*Select Any Single Tag Near Reader Antenna*

*Select Tag with Specific EPC Code* – you have to provide the whole 12 bytes of existing/old EPC’s data.

Use Password – 4-byte of access password

**Lock Settings:**

*Unlock* – you are allowed to write and read from the tag.

*Lock* – you are allowed to read from the tag but not to write to it.

*Permanently Unlock* – once permanently unlock, you can still read from and write to the tag but you can no longer use any lock setting feature.

*Permanently Lock* – once permanently lock, you are allowed to read from the tag, but you can no longer write to the tag and use any lock setting feature.

**New EPC Code** – the new 12 bytes of EPC

You may want to try entering new EPC codes e.g. 1234567890ABCDEF12345678, and click on Write button. A message will prompt you about the operation.

7. On the Control Modes, click on Poll button to read out the tag’s content.

8. Set Kill/Access Password

A tag default password is usually set to 0x00000000. If so, you are allowed to enter new password without providing the existing password stored inside the tag. Otherwise, you have to provide a valid old password in order to write a new one.
TagSense Studio:

1. Click on the TagSense Studio icon on your desktop and the PC will bring up the program like the following screenshot.

2. Click on the upper left icon, a window will pop up letting you know about the connection status. Then you might want to change from continuous polling to manual polling on the Control Modes.

3. Click on the EPC ID tab and you should be able to write information into the tag. Please refer to Reader Control Panel’s step 6 for how to write data into the tag.

4. Click on the Tag Pwd tab for updating access and kill password fields. Please refer to Reader Control Panel’s step 8 for this process.