IQS7211AEV02A USER GUIDE

IQ Switch® - ProxFusion® Series

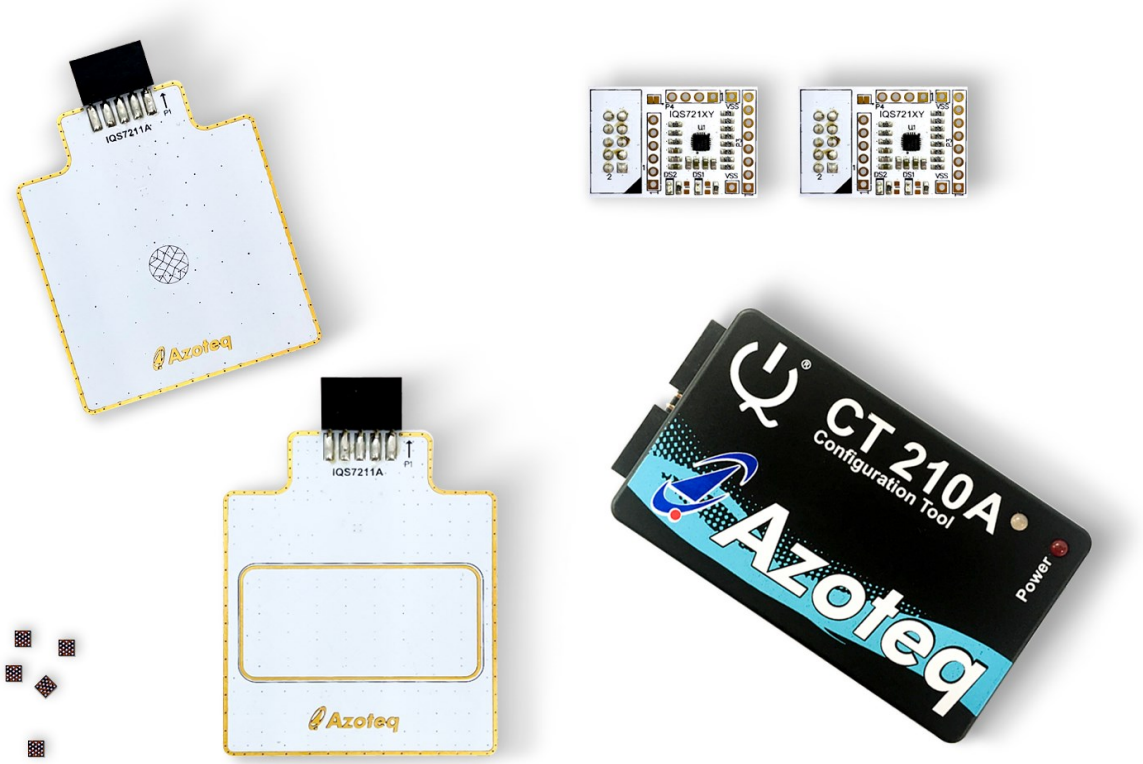


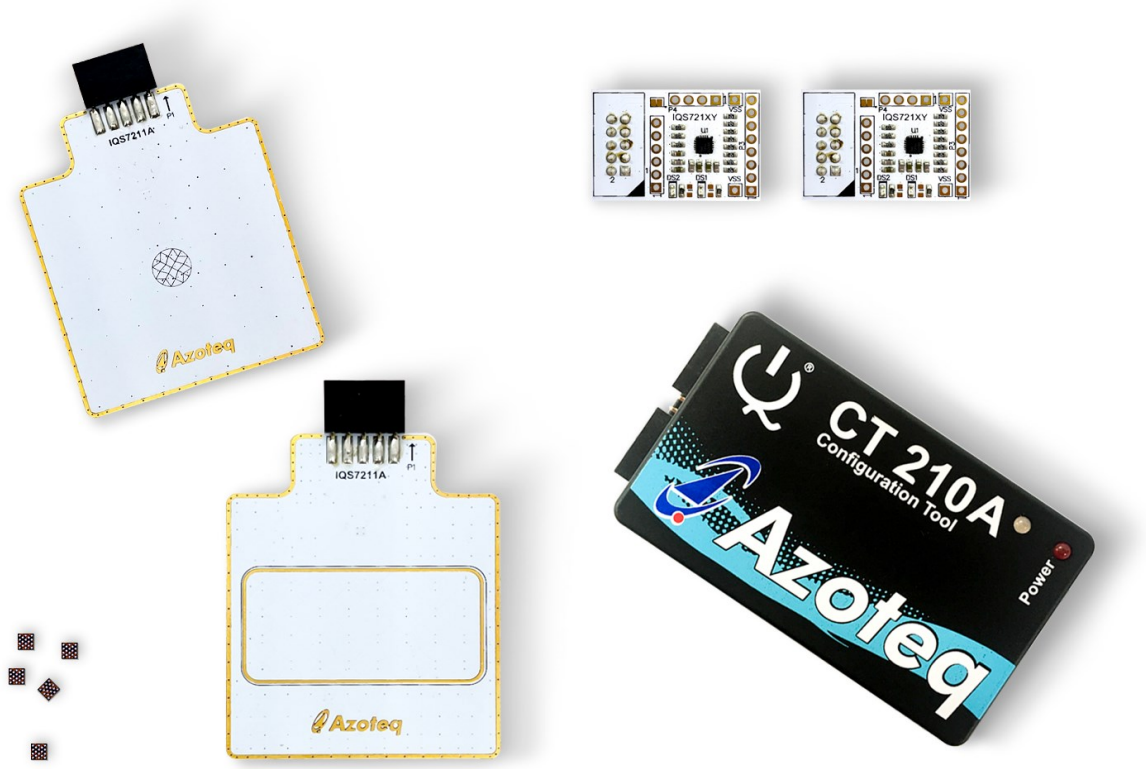
Table of Contents

1 Introduction

This user guide describes the operation of the IQS7211AEV02A Evaluation Kit. The EV-Kit consists of five parts:

- IQS7211A Rectangle Trackpad x 1
- IQS7211A Flower Trackpad x 1
- CT210A x 1
- IQS7211A Stamp x 2
- IQS721XY IC x 5

To visualise raw data from the EV-Kit, the Trackpad board can be interfaced to any personal computer with USB support, along with the CT210A and the relevant IQS7211A software Graphical User Interface (GUI) available to download from the Azoteq website. The purpose of the IQS7211AEV02A EV-Kit is to help application and development engineers in evaluating this IC's capabilities. A picture of the evaluation kit is shown below.

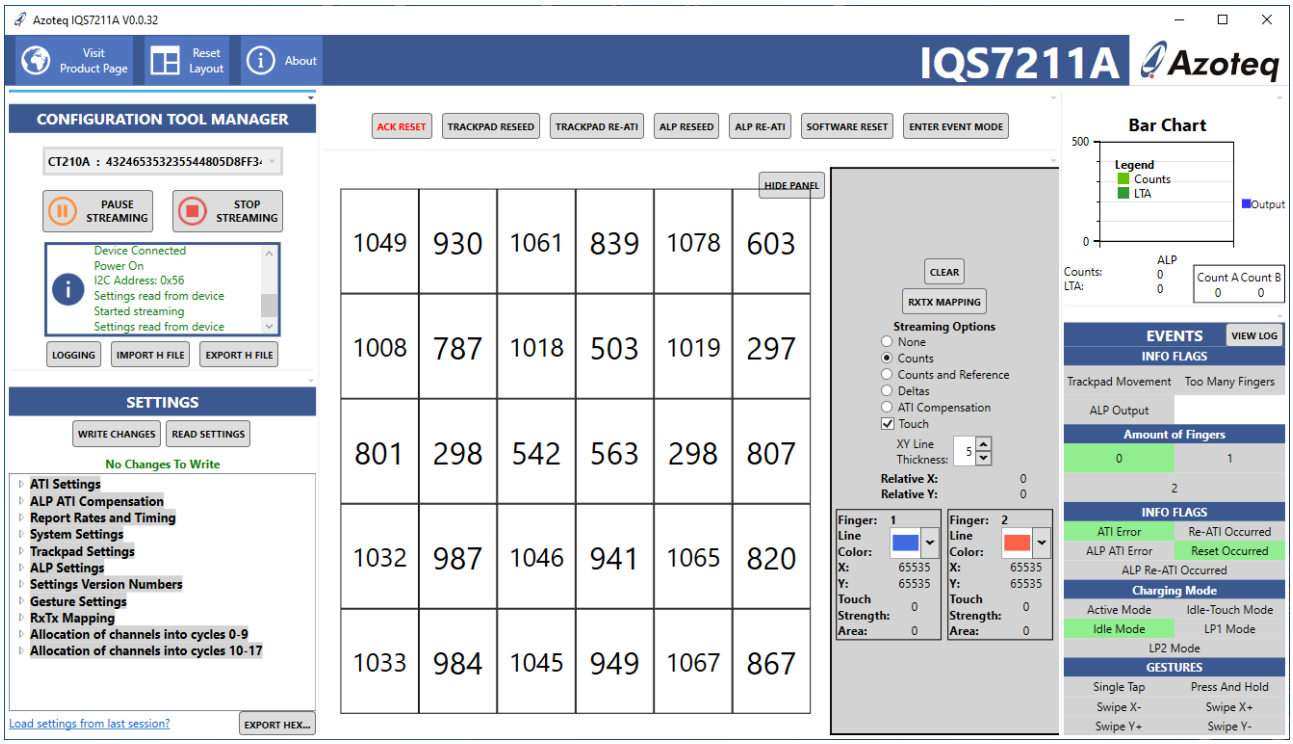


2 Stamps

To interface the IQS7211A Stamp to a PC we advise using the CT210A. This EV Kit can be setup with the following steps:

- Download & Install GUI from Azoteq website
- Plug the stamp board into the CT210A as shown below

- Connect the CT210A to the PC with a USB cable (use USB data cable only)
- Run the IQS7211A GUI (latest version available from the www.azoteq.com website)
- Click “Start Streaming” button
- GUI should look as follow.

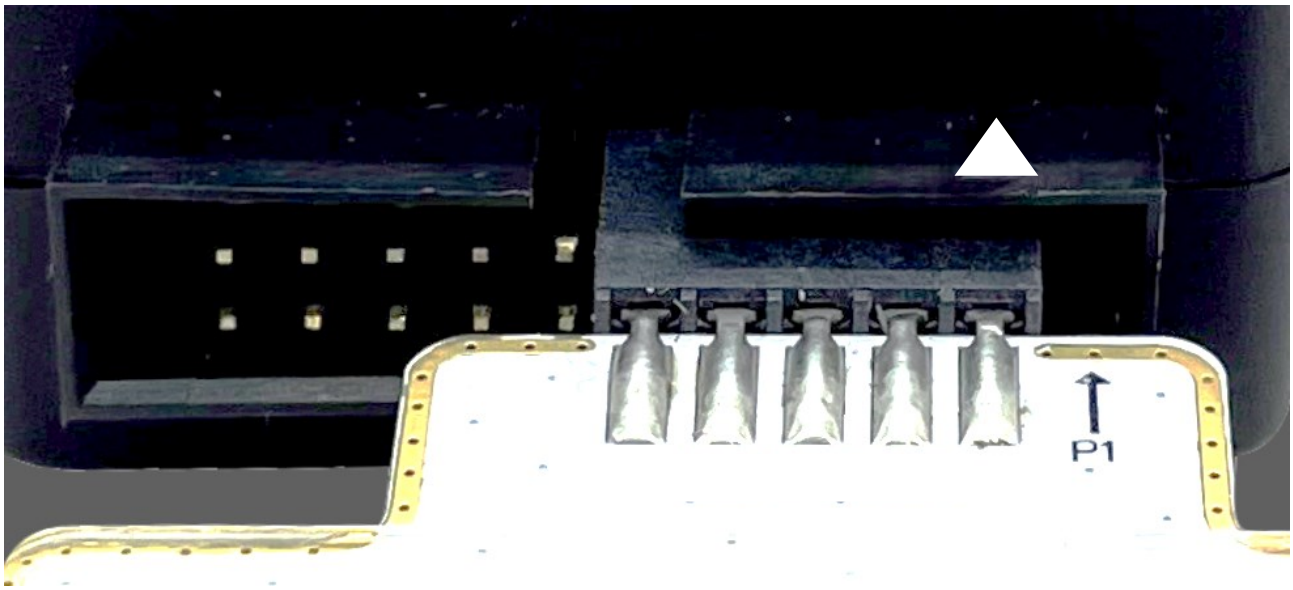


3 Trackpad Careful Consideration

Please note following picture when Flower Trackpad and Rectangle Trackpad modules are plugged into the CT210A.

Take care in ensuring pin alignment is correct as shown in picture below.

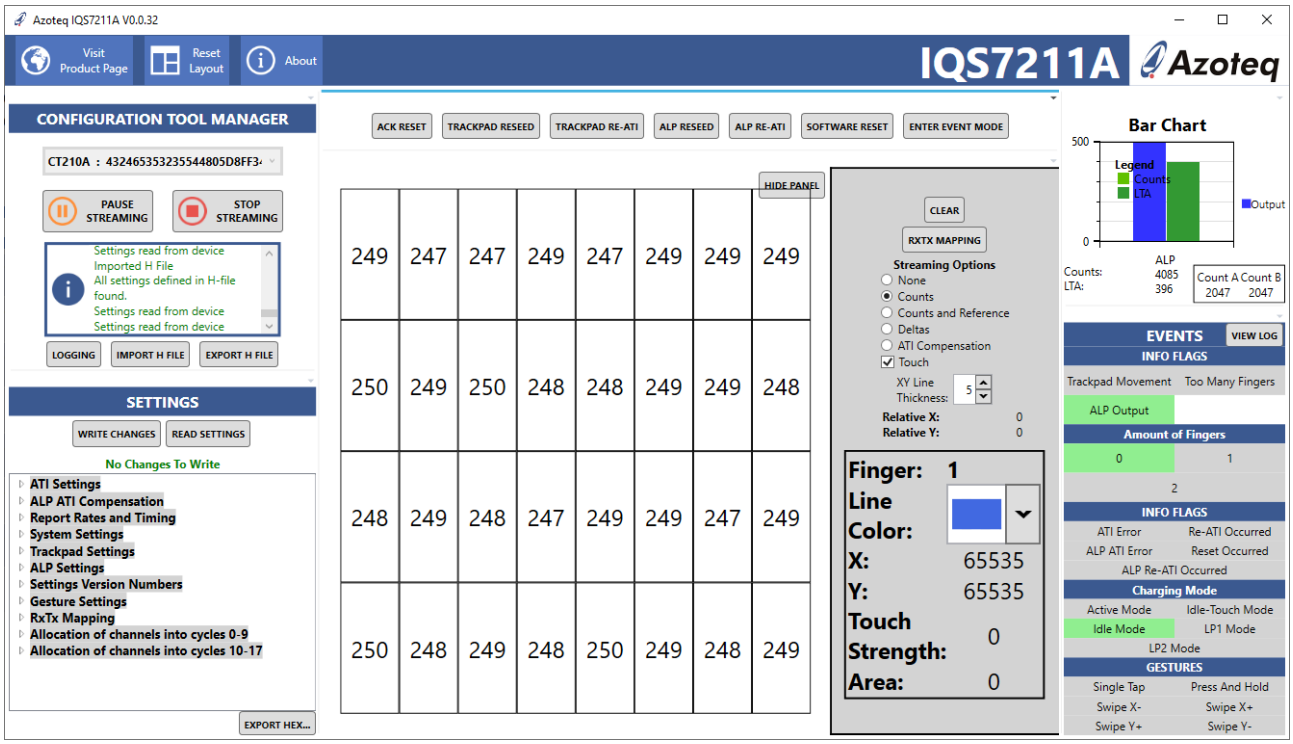
The pin on the right must line up directly below the black triangle (shown below as white triangle to clearly indicate) on the CT210A.



4 Setting up for the IQS7211A Rectangle Trackpad

To interface the IQS7211A Rectangle Trackpad to a PC we advise using the CT210A. This EV Kit can be setup with the following steps:

- Download GUI and Header files from Azoteq website
  - azoteq_iqs7211a_setup.zip
  - iqs7211a_header_files.zip
- Install GUI on PC
- Unzip iqs7211a_header_files.zip file to obtain header files
- Plug the Trackpad into the CT210A (Please ensure pin 1 from Trackpad module line-up with black triangle as shown earlier)
- Connect the CT210A to the PC with a USB cable (use USB data cable only)
- Run the IQS7211A GUI (latest version available from the www.azoteq.com website)
- Click “Start Streaming” button
- Click “IMPORT H FILE”
- Browse to “IQS7211A_Rectangle_Trackpad.h” file and click Open
- Click “ACK RESET”
- Click “TRACKPAD RE-ATI”
- GUI should look as follow.

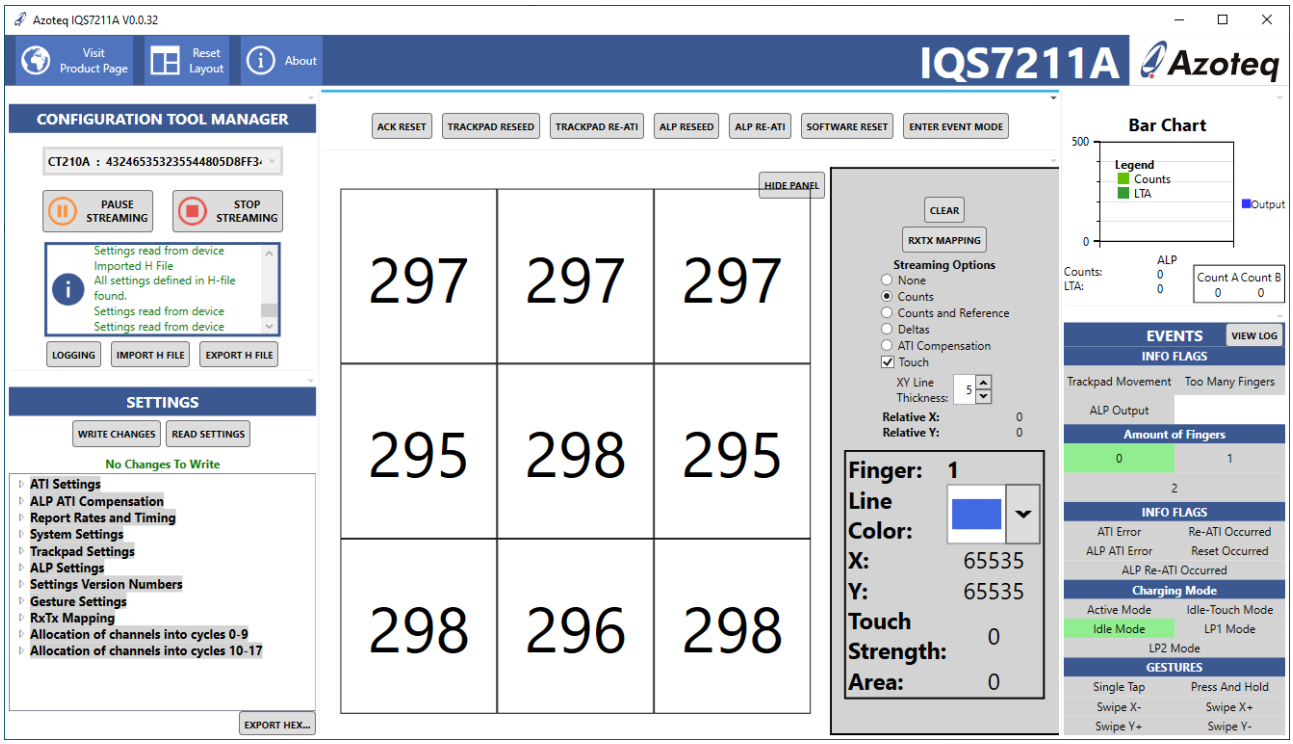


Trackpad is now active to be evaluated.

5 Setting up for the IQS7211A Flower Trackpad

To interface the IQS7211A Flower Trackpad to a PC we advise using the CT210A. This EV Kit can be setup with the following steps:

- Download GUI and Header files from Azoteq website
  - azoteq_iqs7211a_setup.zip
  - iqs7211a_header_files.zip
- Install GUI on PC
- Unzip iqs7211a_header_files.zip file to obtain header files
- Plug the Trackpad into the CT210A (Please ensure pin 1 from Trackpad module line-up with black triangle as shown earlier)
- Connect the CT210A to the PC with a USB cable (use USB data cable only)
- Run the IQS7211A GUI (latest version available from the www.azoteq.com website)
- Click “Start Streaming” button
- Click “IMPORT H FILE”
- Browse to “IQS7211A_Flower_Trackpad.h” file and click Open
- Click “ACK RESET”
- Click “TRACKPAD RE-ATI”
- GUI should look as follow.



Trackpad is now active to be evaluated.

6 Reference Designs

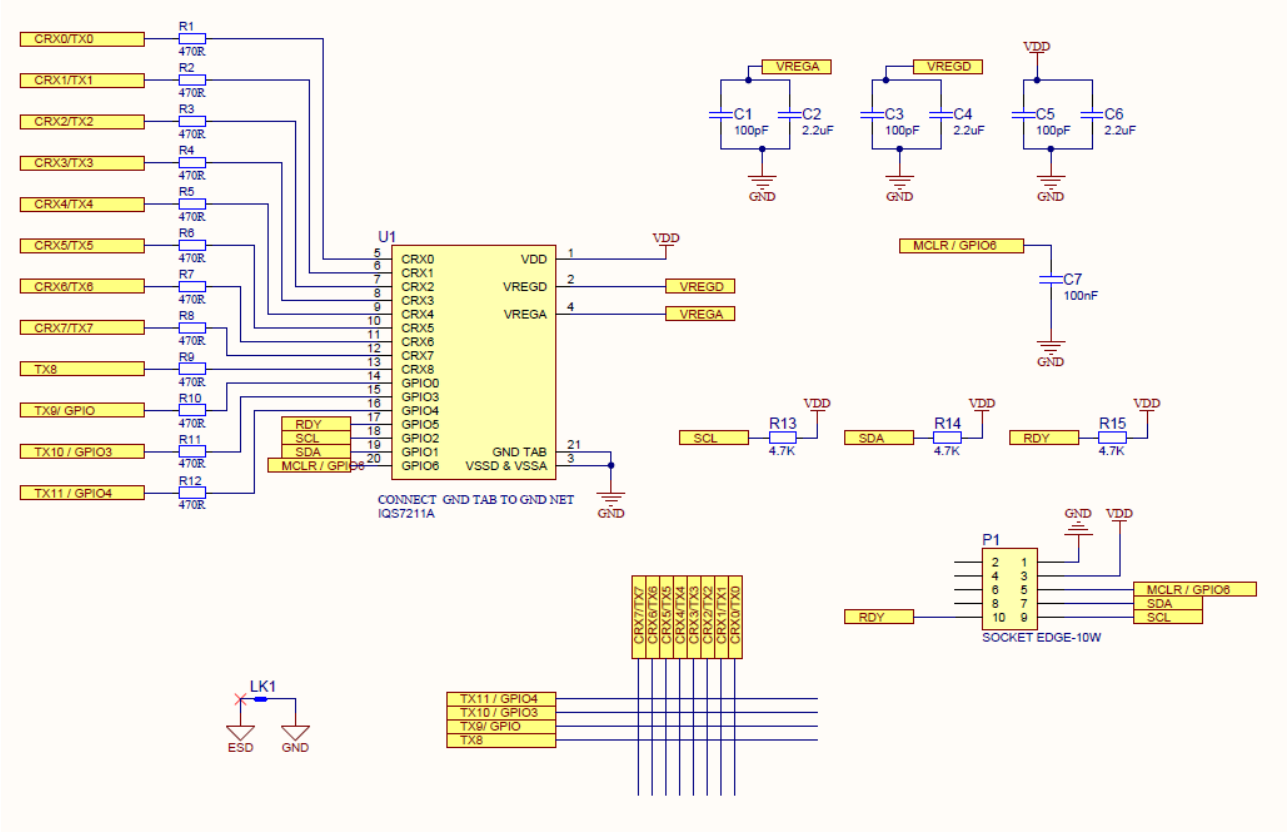


Figure 6-1 IQS7211A Rectangle Trackpad Layout

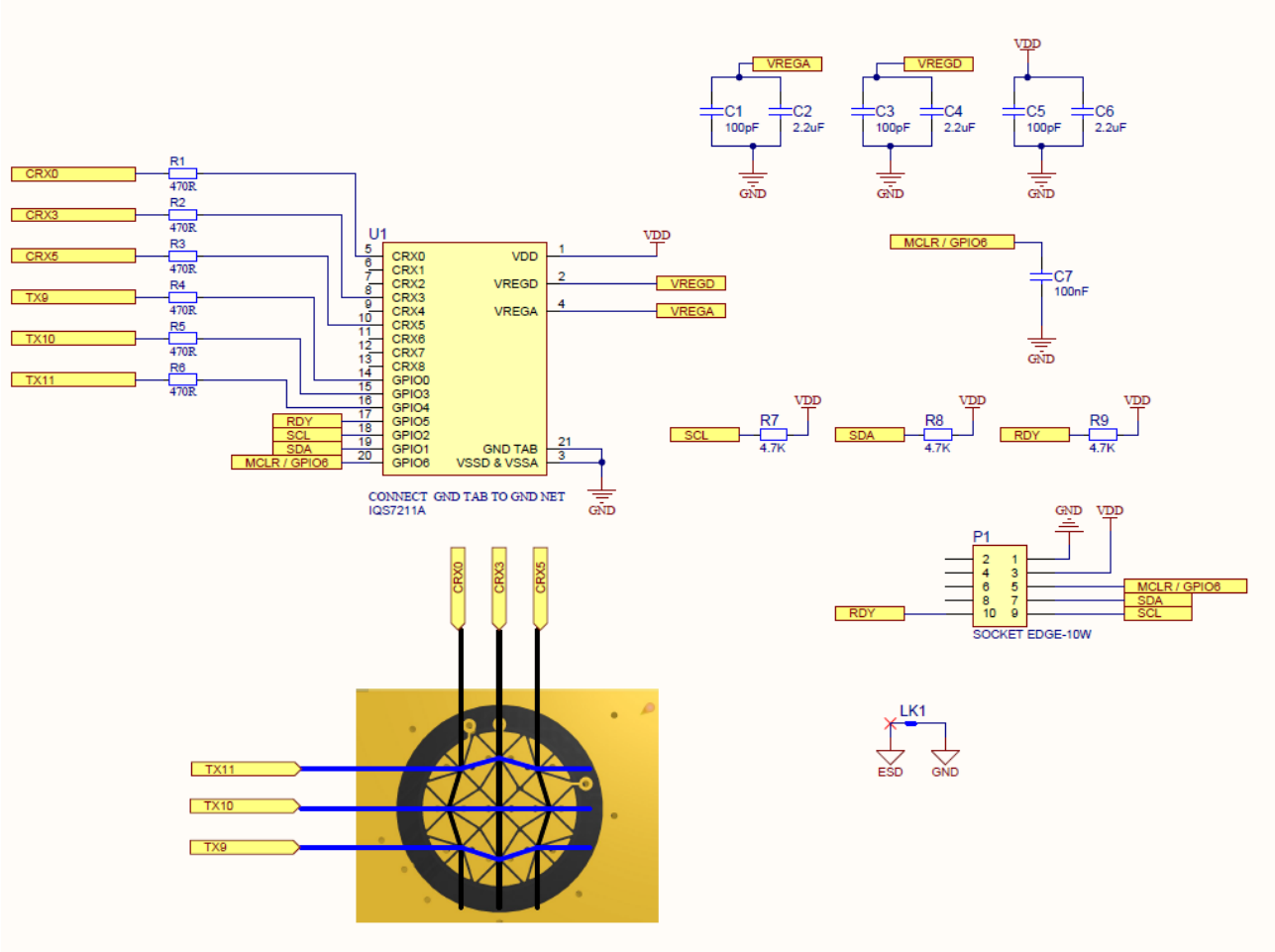


Figure 6-2 IQS7211A Flower Trackpad Layout

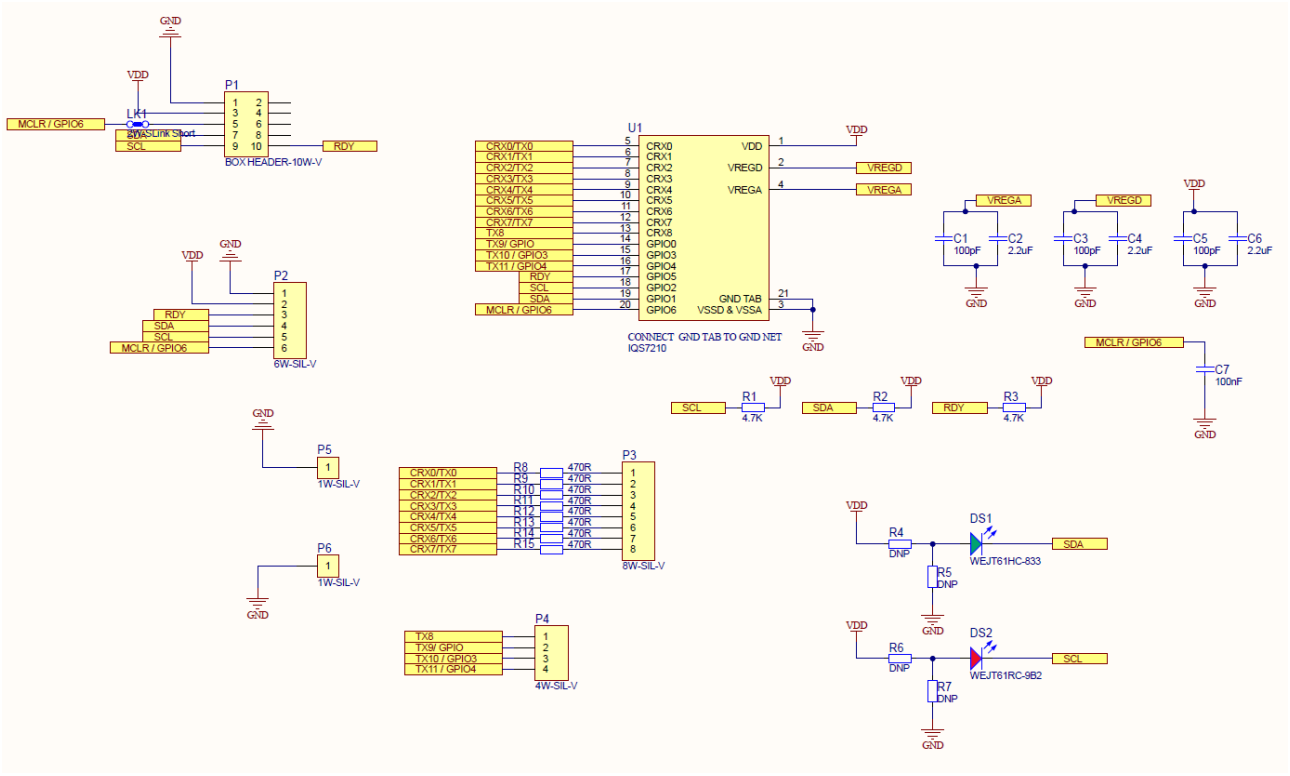


Figure 3 IQS7211A QFN20 Stamp Layout