



IQS7211AEV01 USER GUIDE

IQ Switch® - ProxFusion® Series

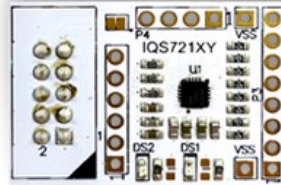




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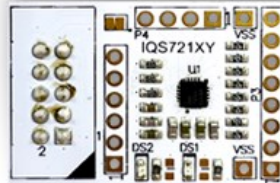
1 Introduction

This user guide describes the operation of the IQS7211AEV01 Evaluation Kit. The EV-Kit consists of one part:

- IQS7211A Stamp x 1

Please note CT210A is not included in this EV-Kit.

To visualise raw data from the EV-Kit, the stamp 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 IQS7211AEV01 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 Setting up for the IQS7211A Stamp

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.

The screenshot displays the Azoteq IQS7211A GUI interface. At the top, there are navigation links for 'Visit Product Page', 'Reset Layout', and 'About'. The main title 'IQS7211A Azoteq' is prominently displayed. Below this, a 'CONFIGURATION TOOL MANAGER' section shows the device ID 'CT210A : 432465353235544805D8FF3' and controls for 'PAUSE STREAMING' and 'STOP STREAMING'. A status box indicates 'Device Connected', 'Power On', and 'I2C Address: 0x56'. Below this are 'LOGGING', 'IMPORT H FILE', and 'EXPORT H FILE' buttons. The 'SETTINGS' section includes 'WRITE CHANGES' and 'READ SETTINGS' buttons, with a note 'No Changes To Write'. A list of settings categories is shown, including 'ATI Settings', 'ALP ATI Compensation', 'Report Rates and Timing', 'System Settings', 'Trackpad Settings', 'ALP Settings', 'Settings Version Numbers', 'Gesture Settings', 'RxTx Mapping', 'Allocation of channels into cycles 0-9', and 'Allocation of channels into cycles 10-17'. A central data grid displays a 6x5 matrix of numerical values. To the right of the grid are 'STREAMING OPTIONS' (None, Counts, Counts and Reference, Deltas, ATI Compensation, Touch) and 'RXTX MAPPING' settings for two fingers. Further right, a 'Bar Chart' shows 'Counts' and 'LTA' with a legend. Below the chart are 'EVENTS' and 'INFO FLAGS' sections, including 'Amount of Fingers' (0, 1, 2) and 'Charging Mode' (Active, Idle, LP1, LP2). The bottom right corner lists 'GESTURES' such as 'Single Tap', 'Press And Hold', 'Swipe X+', 'Swipe X-', 'Swipe Y+', and 'Swipe Y-'.



3 Reference Designs

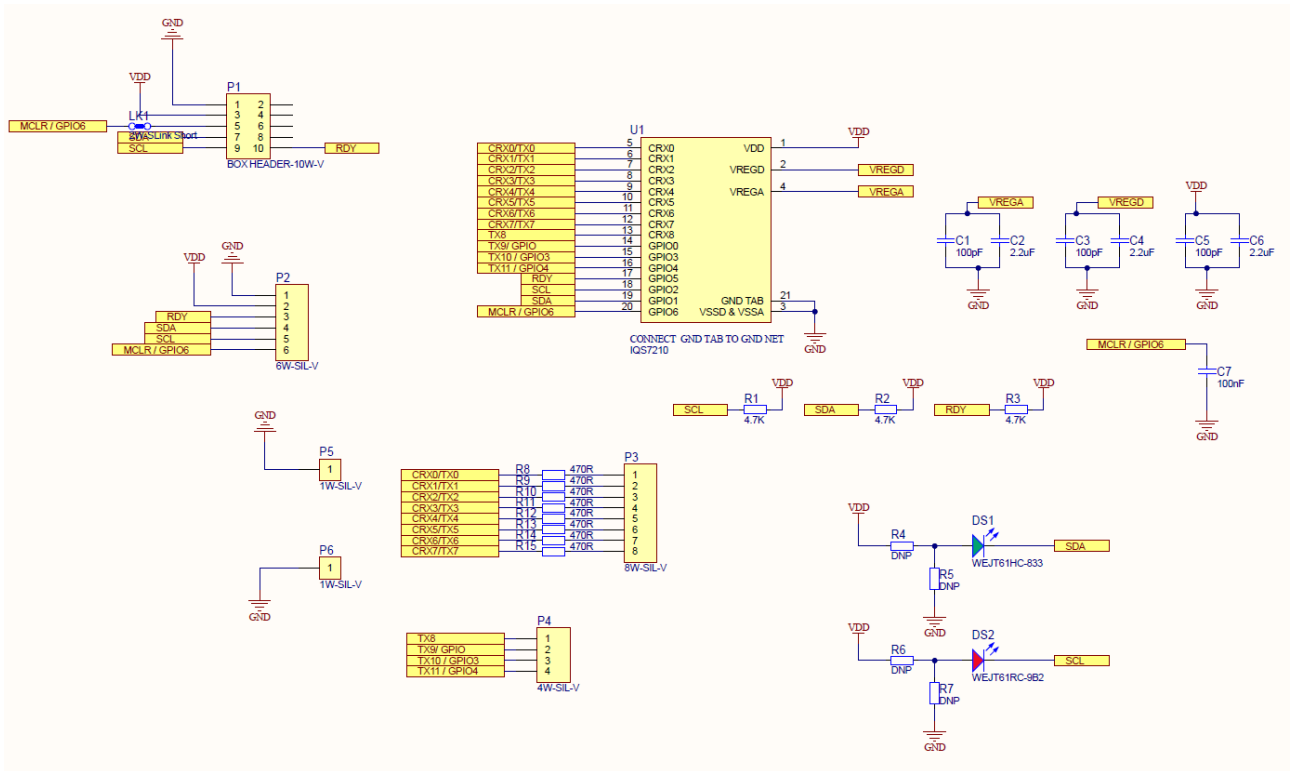


Figure 3-1 IQS7211A QFN20 Stamp Layout