



Quick-Start guide for the IQS127 Evaluation Kit

Step 1: Insert a Module

- Insert a module into the dip socket (J1) on the main board.
- Check the Key!

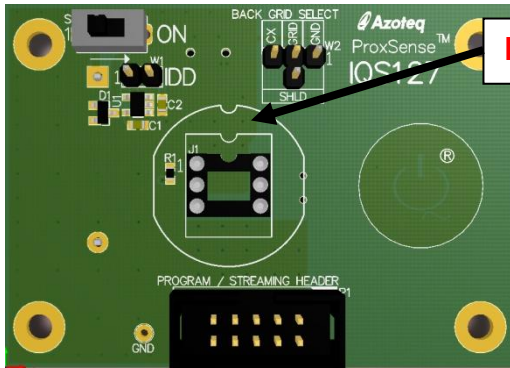


Figure 1.1 Main-board

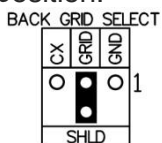
Module-Board	Function
	Dual Output Switch Replacement Touch on Module
	Driven Shield Single Output Touch on main-board Evaluate shielding
	Dual Output Switch Replacement With backlight activation. Touch on Main Board
	Serial Data Raw Data Streaming View data on PC. Touch on Main Board

Step 2: Jumpers

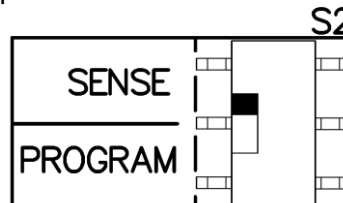
- Ensure the jumper on W1 is placed.



- Ensure the jumper on W2 is placed in any position.



- Ensure switch S2 is placed in the "SENSE" position.



Step 3: Power

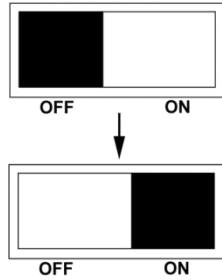
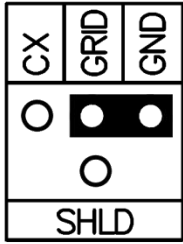
- Place two 3V coin-cell batteries in the battery terminal at the back.
- Move the Slide switch (S1) to the "ON" position.



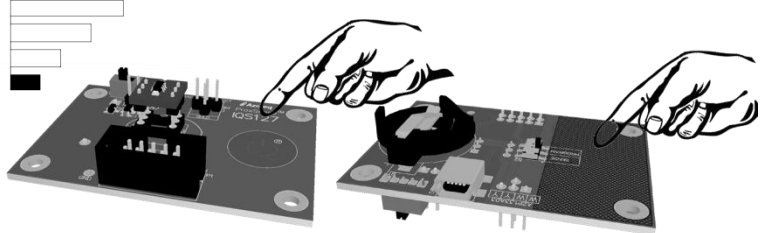
Things to try

- Connect back grid to ground (Jumper W2): Evaluate prox distance and shielding from the back

BACK GRID SELECT



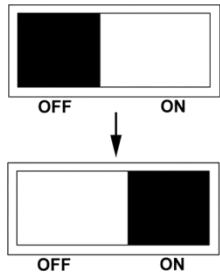
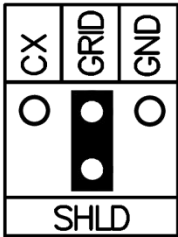
Short Range due to Ground



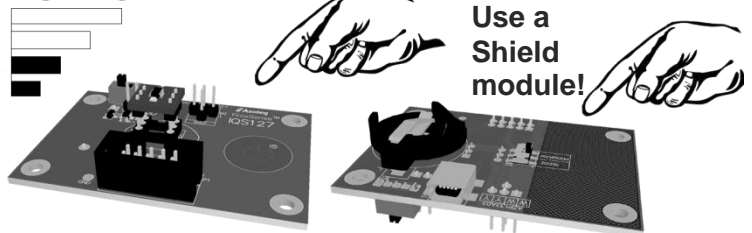
Touch + Prox Shielded

- Connect back grid to Shield (Jumper W2): Evaluate prox distance and shielding from the back.

BACK GRID SELECT



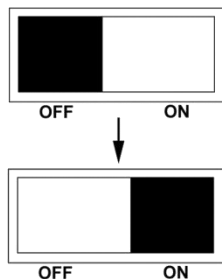
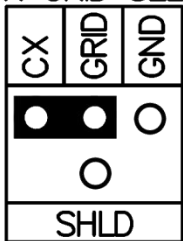
Long Range due to Shield



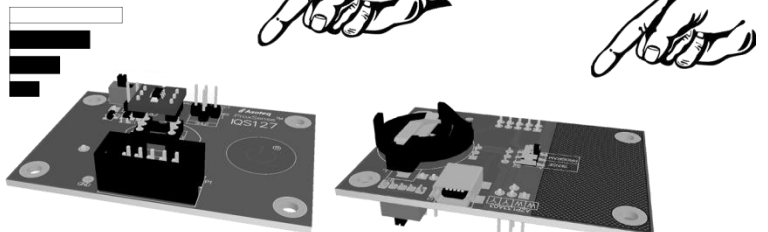
Only Touch Shielded

- Evaluate the increased proximity sensitivity by connecting CX to the back grid (Jumper W2).

BACK GRID SELECT

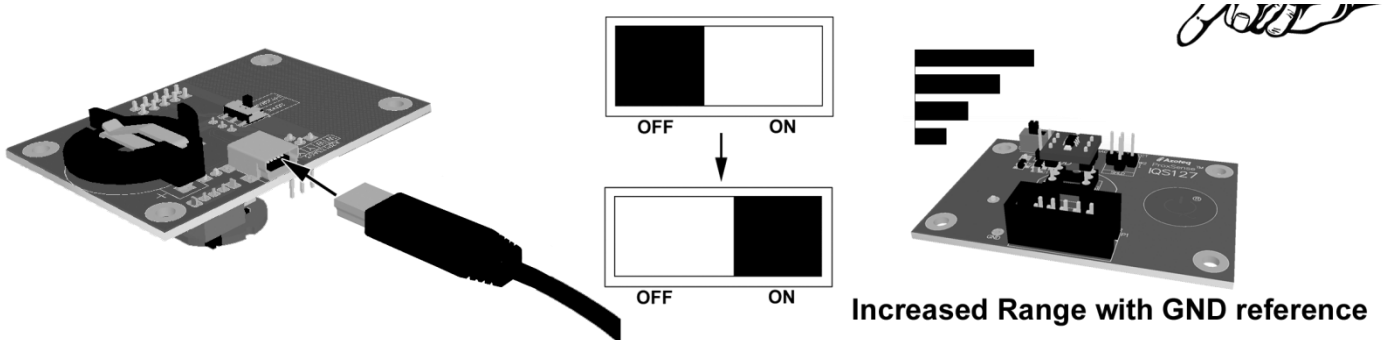


Super Long Range



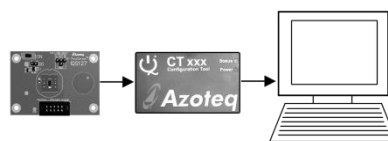
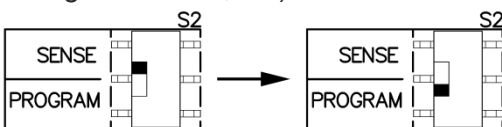
Omnidirectional Detection

- Evaluate the increased proximity sensitivity by increasing the ground reference (connecting external ground from power supply or PC).

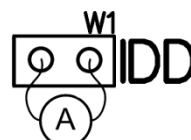


Increased Range with GND reference

- Flip switch from SENSE to PRGM, to program new settings on the IC (eg: enabling streaming, setting thresholds, etc).



- Evaluate current consumption by measuring on jumper W1.



- Connect a CT tool for streaming the device to a PC.