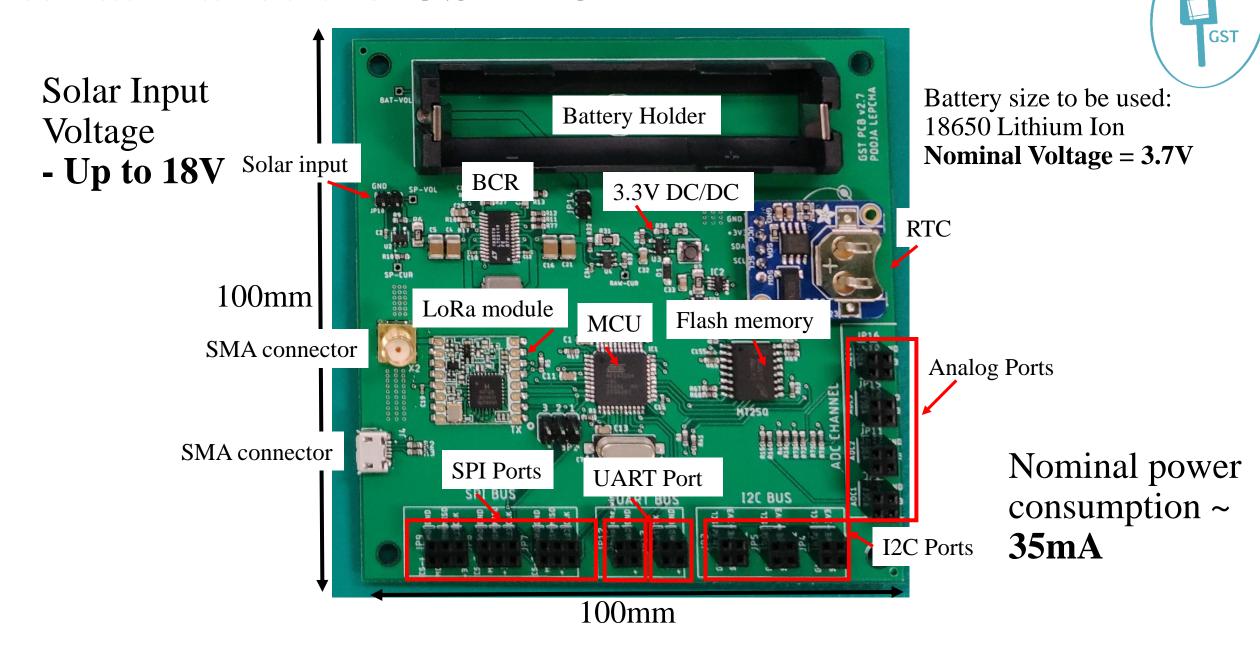
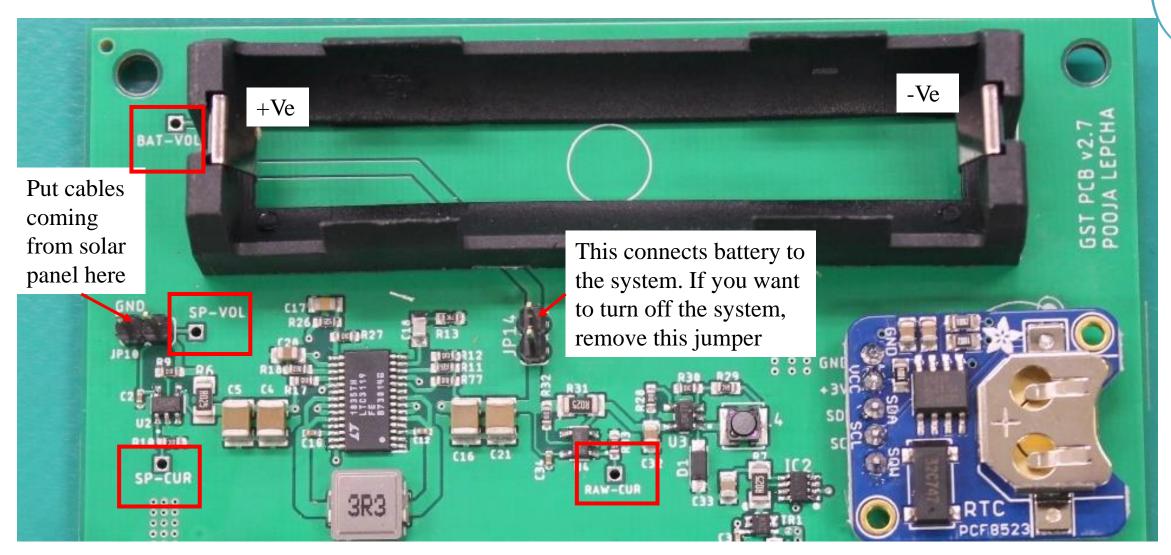


Guide to Use GST PCB Pooja Lepcha

What makes the GST PCB?

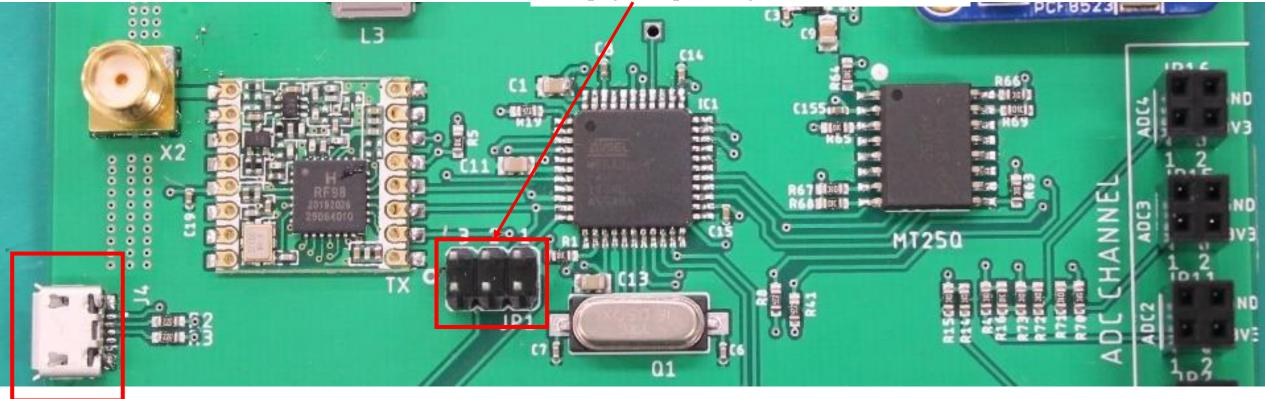




The red marked points are places you can measure the analog voltage

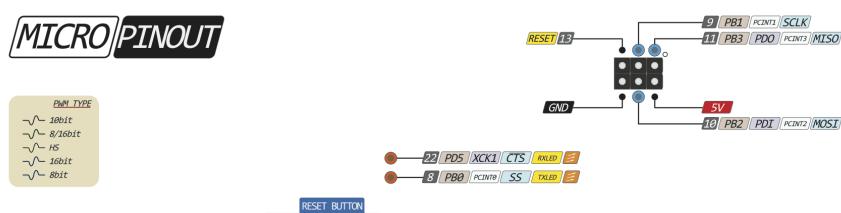
These are boot loading pins for Atmega, the bootloader is already uploaded. Check next page for pin assignment

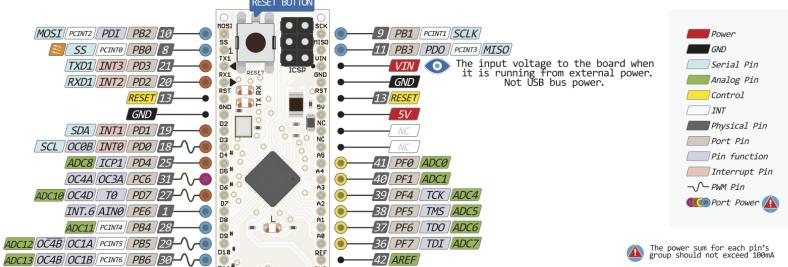




You can program the atmega directly from here.

Boot loaded Pin Assignment





3V3 Absolute MAX 150mA

Absolute MAX per pin 20mA recommended 10mA

RTS OCOA OC1C PCINTY PB7 12

ADC9 OC4D T1 PD6 26-1



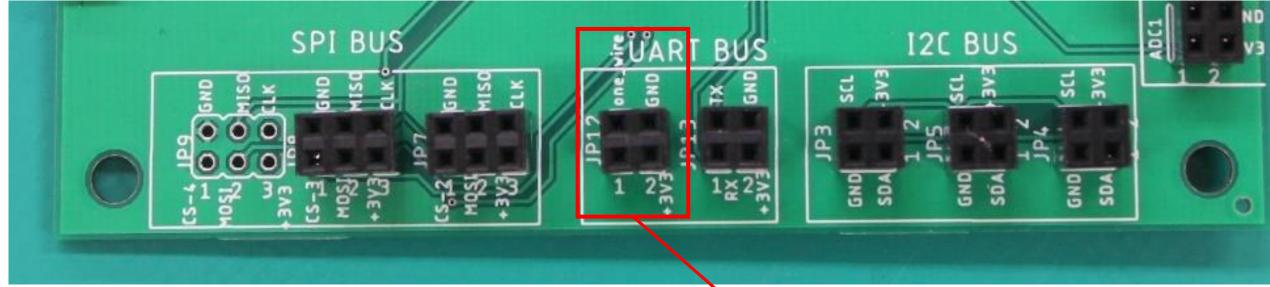




Please use this pin assignment for the Atmega. It follows the Arduino Micro Pin assignment







Please check the silk print for the pin assignment.

This one is not UART pin. It is for connecting one wire temperature sensor (DS18B20). The circuit for getting the data has already been implemented.

https://create.arduino.cc/projecthub/TheGadgetBoy/ds18b20-digital-temperature-sensor-and-arduino-9cc806





Pin 1 of every ADC port is fed to the atmega for taking analog measurements. There is a voltage divider for every ADC channel. Make sure to multiply the voltage by 2

You can even connect using jumpers the analog readings from current and voltage measurements from the third page to these ports to measure solar panel voltage, battery voltage, solar panel current and raw current