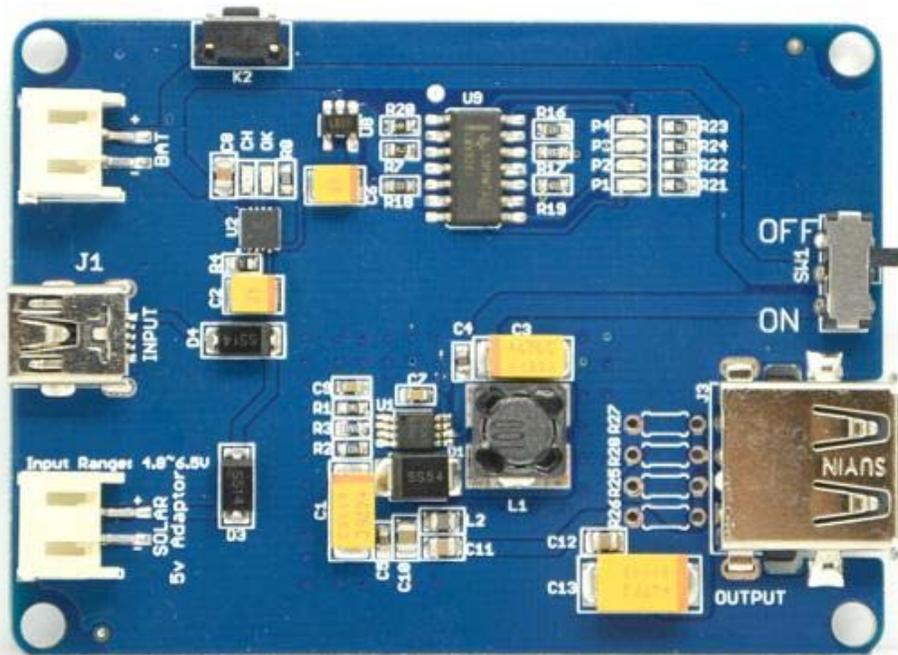


Lipo Rider Pro



Power your favourite electronic kit with green energy! The LiPo Rider Pro is an enhancement of Lipo Rider. It supplies heavier load output(1A peak) than Lipo Rider. The LiPo Rider Pro board allows you ride the solar wave to run your favourite 5V device. The LiPo Rider Pro board is the ideal green power solution for your outdoor sensor design. Attach the LiPo Rider Pro board to your sensor board and it can run on solar power forever! It can also be used to charge mobile phone.

The LiPo Rider Pro is extremely affordable and easy to use. No programming is required. Plug it in and it works. The internal charger IC handles all the power flow between the various components.

In case solar power is not sufficient, the mini USB port allows you to charge your lithium battery through USB. It can also be used to program your kit without detaching the LiPo Rider Pro board.

The LiPo Rider Pro can be purchased as a separate board or as a kit (LiPo Rider Pro + Lithium Battery + Solar Panel).

Specifications

| Items | Min | Norm | Max |
|--|-------|-------|-----------|
| V_{in} Solar | 4.8V | 5.0V | 6.5V(10s) |
| I_{charge} ($R_{Iset}=3.9k\Omega$) | 400mA | 500mA | 600mA |
| I_{load} | 0mA | | 1000mA |
| $V_{batt}(R_x=0\Omega)$ | 4.2V | | |
| V_{source} USB | 5.0V | | |
| $V_{destination}$ USB | 5.0V | | |

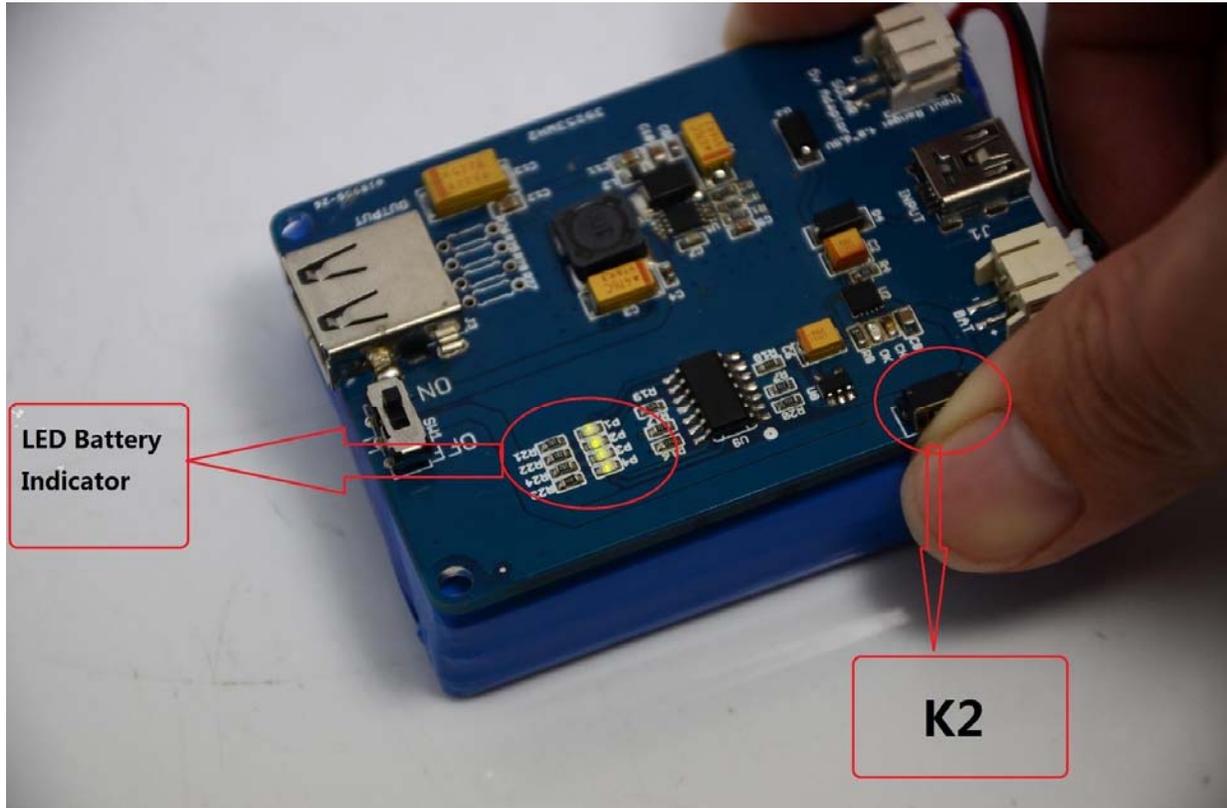
Pin definition and Rating

Pin Instruction and LED Statement

| CH pin level (Red LED state) | OK pin level (Green LED state) | Statements |
|------------------------------|--------------------------------|--|
| Low level (ON) | High level (OFF) | Charging |
| High level (OFF) | Low level (last ON) | Complete |
| Pulse signal (Flash) | Pulse signal (ON) | The battery does not exist |
| High level (OFF) | High level (OFF) | Two situations: Input voltage lower than gate voltage The input voltage lower than battery voltage |

LED Battery Indicator

The LiPo Rider Pro has four LED battery indicators like the cell phone, and you can see the battery power by just pressing the button K2 like below:



LED battery indicator parameter

Numbers of indicators lighting up Amount of electricity

| | |
|---|---------|
| 4 | 90~100% |
| 3 | 60~90% |
| 2 | 30~60% |
| 1 | 10~30% |
| 0 | 0~10% |

Usage

Example

Outdoor Sensor Device Power Supply

One important application of the Lipo Rider Pro board is as an affordable power supply for outdoor sensors. The outdoor sensor device will be powered by the lithium battery supplemented by the solar panel. Please note that it is not recommended to run the outdoor sensor ONLY

on solar power, as this may vary during the day and may cause the sensor to reset / power down unexpectedly. In this case, the device is running in "USB Mode".

If a firmware reprogram for the outdoor sensor device is required, simply connect the mini USB port to your PC which will put the device under "Program Mode" as explained above.

Larger/multiple batteries and/or solar panels can be used, but only with end-user modifications.



Charge Lithium Polymer Battery through solar power



Resources

- CN3065 Datasheet in PDF
- Schematic and Layout in Eagle format
- Schematic in pdf format
- Get Lipo rider pro to charge Ipad or Iphone
- Lithium Ion polymer Battery pack - 6A

Project

PlantSigfox Monitoring Retrieving air/soil moisture & temperature and brightness (and RGB rays). It also sends the localization, and so gives weather forecasts.

Step Detection System By A Way With Arduino The purpose of the project is to detect the passing of cars and people at the entrance to an orchard and a warning beep inside this house.

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