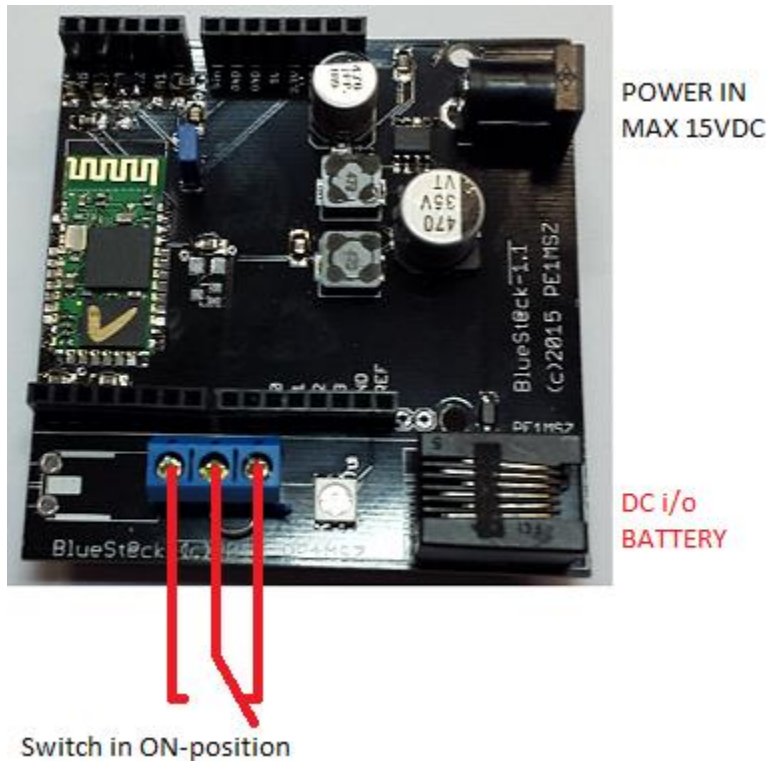


## BlueStack1 usermanual and installation

BlueStack 1 is the base-board of all the BlueStack-Series interfaces. It makes communicating via Bluetooth available for applications as BlueSpot (written by PA7LIM, David). This Android app will connect via Bluetooth to this board, which will establish all communications to the DVMEGA dual-band-radio (dvmege.auria.nl).

### Hardware overview:



**Do not connect anything to the DC i/o Battery, this is for the BluePack, and has a DC output!!**

### Stacking the BlueStack:

- Remove the DVMEGA dualbandradio from the Arduino-board.
- If needed, please upgrade the firmware in the Arduino-board. Instructions and firmware can be downloaded from [dvmege.auria.nl](http://dvmege.auria.nl).
- Place the BlueStackboard carefully on top of the Arduino (DC-jack above Arduino DC-jack).
- Place the dual-band-radio on top of the BlueStack board.
- Check All connections, before you power up!

### Using the BlueStack:

Connect the 10 to 15VDC to the BlueStack board's DC-jack. This is the only connection for power needed! The LED (Blue) will light, and after a few seconds it will flash with 2 colors (Green for BT and RED for the dvmega).

With your phone search for Bluetooth devices, and select BlueStack from the found devices. Connect and enter the pin 1234.

Now the board is connected the green LED will flash in a slower rate.

Install the BlueSpot APP from the App-store. In the setup you need to do some settings, which are quite obvious to set.

### LED information:

- Blue-> board is powered up.
- Green -> fast flash: no BT connection, slow flash: Connected to BlueSpot-APP.
- Red -> Led flashed slow: the radio receives your portable radio-signal. Steady lit: radio-board is transmitting.