

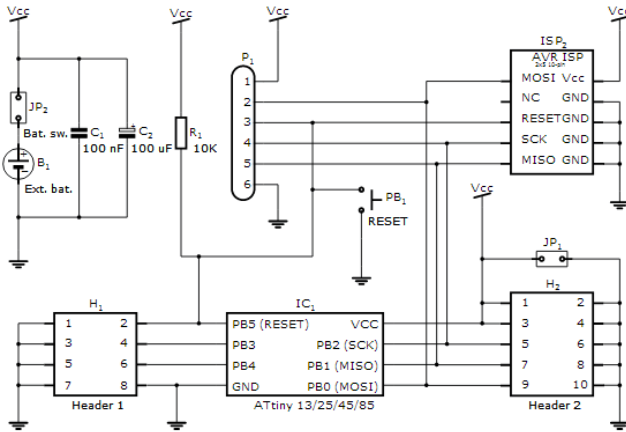
## The Tinosaur Project

Briefly, the Tinosaur is a minimal micro-controller hardware configuration based on Atmel AVR ATtiny family of products and more specifically those with DIP-8 case such as ATtiny25/ATtiny45/ATtiny85, ATtiny13 as well as their variations.

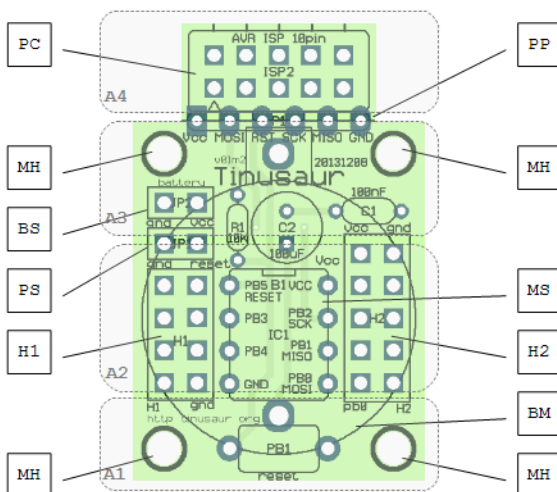
The goal of the Tinosaur project is to have a simple, cheap and accessible quick-start platform for everyone interested in learning and creating things.

## Tinosaur Starter

The Tinosaur Starter is a beginners' kit that will help you start with microcontrollers and the Tinosaur particularly.



### Notes

There are 4 areas that a Tinosaur board could be divided to: A1, A2, A3, A4. That is applicable for the actual Tinosaur main board as well as any shield boards one could produce.

### A1, the bottom part of the board:

- this is the area where the RESET button is placed on the main board.
- for a shield board that area could be used to put some components and produce a simple circuit.

### A2, the mid of the board – heads:

- there are 2 header – one 2x4 and another one 2x5, they are different for a reason.
- on the main board, between the headers, is placed the MCU.
- on a shield board, between the headers, could placed an 8-pin chip or other components.

### A3, the top part of the board:

- there are the minimum required components for the MSU to work – 2 capacitors for the power source and one pull-up resistor for the RESET.
- jumper for external power – red.
- jumper to switch on/off battery – yellow.

### A4, tip of the board:

- standard ISP programming connector.

Additionally ...

### A5, the other side of the board:

- there is optional cell-button battery mount.

## Package Contents

Name	Description
PCB	Tinosaur Board
MCU, Attiny85	Atmel AVR ATtiny85 microcontroller
Socket, DIP-8	DIP-8 socket for MCU
H1, Header	Header 2x4, Female
H2, Header	Header 2x5, Female
ISP, Header	Header 2x5, Male, for ISP
RESET, Button	Tactile push button, for RESET
Power, Header	Header 1x2, Male, red – external power
Battery, Header	Header 1x2, Male, yellow – battery power on/off
Battery, Jumper	Jumper, 2-pin, yellow – for battery power on/off
C1, Capacitor	Capacitor 100nF, Small
C2, Capacitor	Capacitor 100uF, Low profile 5x5 mm
R1, Resistor	Resistor 10K, Small, 1/8W
Battery holder	Battery holder for CR2032
Battery 3V	Battery 3V, CR2032
LED1, LED	LED, 3mm, red
LED2, LED	LED, 3mm, green
Resistor (LED1)	Resistor 330 ohm, Small, 1/8W, for LED
Resistor (LED2)	Resistor 330 ohm, Small, 1/8W, for LED
Header (LED1)	Header 1x2, Male, for LED
Header (LED2)	Header 1x2, Male, for LED
ISP Programmer	USB ASP, 10-pin connector, with cable

Official web address: <http://tinosaur.org>

Blog: <http://tinosaur.wordpress.com>

Online store: <http://tinosaur.storenvy.com>

Facebook: page <https://www.facebook.com/tinosaur>, group

<https://www.facebook.com/groups/tinosaur>

Twitter: <https://twitter.com/tinosaur>