

Tinusaur Board

3 Votes

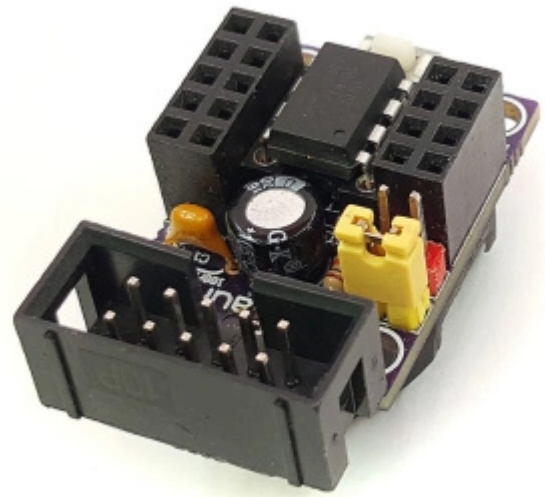
A collection of various electronic components including resistors, capacitors, integrated circuits, and connectors.

- It comes as a kit, in parts, all in a small plastic bag, you have to solder it yourself.
- In order to program this microcontroller board you will need a programmer and what we recommend is the **AVR ISP programmer** (<http://www.atmel.com/tools/avrispmkii.aspx>). We prefer using the **USBasp** (<http://www.fischl.de/usbasp/>) because of its simplicity, reliability, last but not the least – its affordable price.

Another option is to use an **Arduino** (<http://www.arduino.cc/>) to program the ATtiny microcontroller. There are good articles on the Internet about how to do that, here are just a few: **Programming an ATtiny w/ Arduino 0022** (<http://highlowtech.org/?p=1229>), **Program an ATtiny with Arduino** (<http://www.instructables.com/id/Program-an-ATtiny-with-Arduino/>).

Our recommendation ...

There is also the **Tinusaaur Starter** (<https://tinusaaur.wordpress.com/tinusaaur-starter/>) – another kit we produce that has everything included in the **Tinusaaur Board** (<https://tinusaaur.wordpress.com/tinusaaur-starter/tinusaaur-board/>) plus a USBasp programmer, plus few other useful things. Check its **page** (<https://tinusaaur.wordpress.com/tinusaaur-starter/>) for more details.



Assembled Tinusaaur Board

What's in the box?

Here is the list of everything included with the **Tinusaaur Board**:

Name	Description
PCB	Tinusaaur PCB
MCU, Attiny85	Atmel AVR ATtiny85 microcontroller
Socket, DIP-8	DIP-8 socket for MCU
H1, Header	Header 2×4, Female
H2, Header	Header 2×5, Female
ISP, Header	Header 2×5, Male, Shrouded, for ISP programming with USBasp
RESET, Button	Tactile push button, for RESET
Power, Header	Header 1×2, Female, for external power (1)
Battery, Header	Header 1×2, Male, for battery power on/off (2)
Battery, Jumper	Jumper, 2-pin, for battery power on/off (2)
C1, Capacitor	Capacitor 100nF, Small
C2, Capacitor	Capacitor 100uF, Low profile 5×5 mm
R1, Resistor	Resistor 10K, Small, 1/8W (3)
Battery holder	Battery holder for CR2032
Battery 3V	Battery 3V, CR2032

- (1) The external power header in some older models is a male header and in a different color (ex.: red or green).
- (2) The battery header and jumper for on/off may be in black but also in another color (ex.: yellow).
- (3) The 10K resistor could be in different colors, Its value is marked with the color code – the color stripes on its body. Ref.: **Wikipedia.org / Electronic color code – Resistor color-coding** (https://en.wikipedia.org/wiki/Electronic_color_code#Resistor_color-coding)

For information about purchasing visit our **Where to buy** (<https://tinusaur.wordpress.com/where-to-buy/>) page.

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