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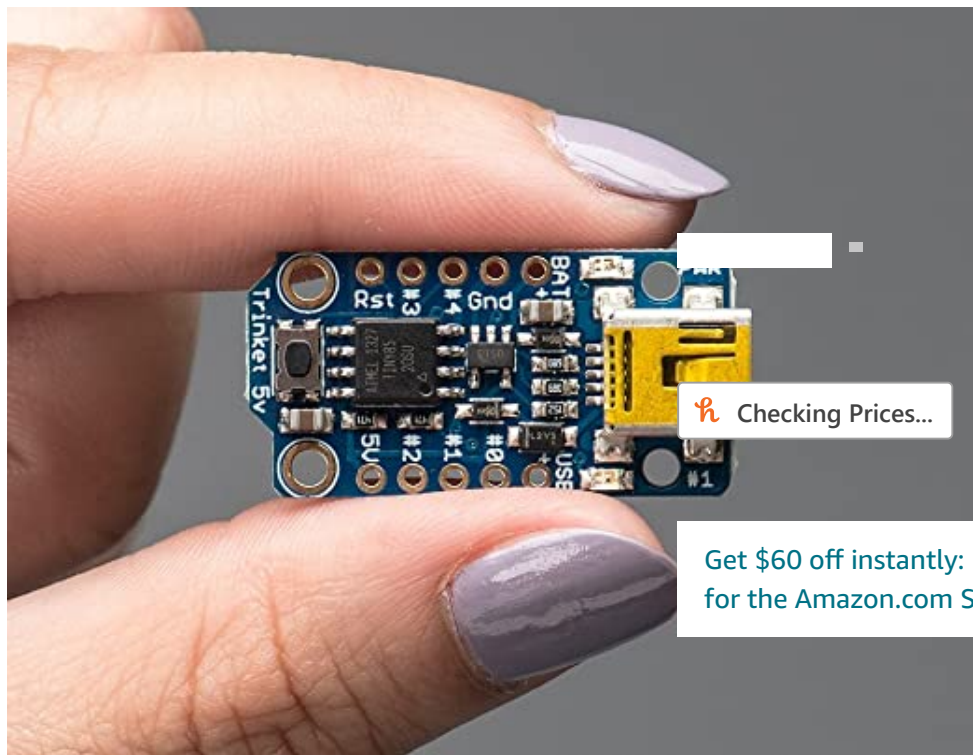


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# Trinket - Mini Microcontroller - 5V Logic

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16 KB of flash, 512 byte of SRAM,  
512 bytes of EEPROM

- USB bootloader with a nice LED indicator looks just like a USBtinyISP so you can program it with AVRdude (with a simple config modification) and/or the Arduino IDE (with a few simple config modifications)

- Mini-USB jack for power and/or USB uploading, you can put it in a box or tape it up and use any USB cable for when you want to reprogram.
- Power with either USB or external output (such as a battery) - it'll automatically switch over
- 5 GPIO - 2 shared with the USB interface. The 3 independent IO pins have 1 analog input and 2 PWM output as well. The 2 shared IO pins have 2 more analog inputs and one more PWM output.

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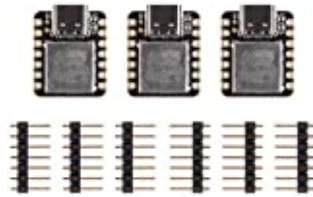
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## Product description

Trinket may be small, but do not be fooled by its size! It's a tiny microcontroller board, built around the Atmel ATtiny85, a little microcontroller that wanted to design a microcontroller board that was small enough to fit into any project, and low cost enough to use without having to give up your expensive dev-board and you aren't willing to take apart the project you worked so hard to design. It's a tiny, programmable board! The Attiny85 is a fun processor because despite being so small, it has 8K of flash, and 5 I/O pins, including 'analog' outputs. We designed a USB bootloader so you can plug it into any computer and reprogram it over a USB port just like an Arduino. We made some simple modifications to the Arduino IDE so that it works like a mini-Arduino board. You can't stack a big shield on top of it, but for projects the Trinket will be your go-to platform. This is the 5V Trinket. There are two versions of the Trinket. One is 3V and one is 5V. They have different operating logic voltages. Use the 3V one to interface with sensors and devices that need 3V logic, or when you're using a battery. The 3V version should only run at 8 MHz. Use the 5V one for sensors and components that can use or require 5V logic. You can run it at 8 MHz or at 16MHz by setting the software-set clock frequency. Even though you can program Trinket using the Arduino IDE, it's not Arduino compatible. There are some things you trade off for such a small and low cost microcontroller! Trinket does not have a Serial port, so the serial port monitor will not be able to send/receive data. Some computers' USB v3 ports don't recognize the Trinket's boot loader, so you may need a USB port or a USB hub in between.

## Product information

Product Dimensions	2 x 1 x 1 inches
Item Weight	0.353 ounces
Manufacturer	Adafruit Industries
ASIN	B00K9THV04
Item model number	100232
Customer Reviews	<a href="#">117 ratings</a> 4.5 out of 5 stars
Best Sellers Rank	#522 in <a href="#">Single Board Computers (Computers &amp; Accessories)</a>
Is Discontinued By Manufacturer	No
Specific Uses For Product	Personal
Batteries Required	No
Import Designation	Made in USA

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**Product Warranty:** For warranty information, [click here](#)

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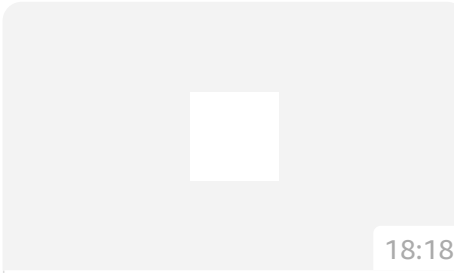
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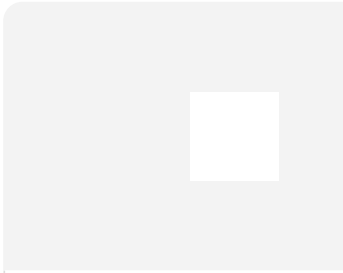
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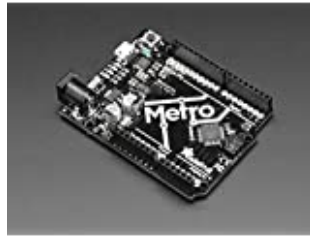
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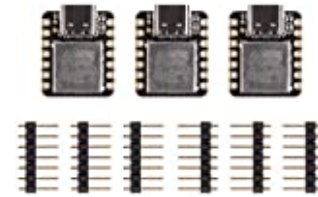
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Top reviews

## Top reviews from the United States



M. Hayden

**Great tiny micro-controller - sips power, delivers**

Reviewed in the United States on September 7, 2016

**Verified Purchase**

This was a great, fast buy. I needed one of the trinkets fast to help with my tech club project. In particular these do a great job of driving the LEDs, reading button presses and other small tasks that you may need.



projects. It is amazing that this thing will run well on a tiny LiPo

Bear in mind that the 'serial port' is not a serial port: once you connect it to a computer and then you push the button on the trinket to get the red light to blink, you need to download the code. Only then will the trinket "wake up and pay attention" to sending the programming down the line. All of this is covered in the instructions, but repeating to prevent disappointment/frustration.

7 people found this helpful

Helpful

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Leonamazon

### **So very disappointed.... do not buy**

Reviewed in the United States on November 16, 2019

**Verified Purchase**

So disappointed. I got this because of the good reviews and it wouldn't start. Went through the manual and troubleshooted the board, but it still wouldn't work. I reported it and I got a second one. Same problem! The boot loader I could find is that I have to buy another board to load the boot loader. What is that? I bought a better board.... I'd just use that... anyway... the trinket is so disappointing with ada on their quality and lack of instructions.

2 people found this helpful

Helpful

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Bob. Just Bob.

### **Fun Trinket!**

Reviewed in the United States on June 20, 2016

**Verified Purchase**

Fun little (pardon the pun) trinket. With some work, I was able to use it as a USB HID device. Worked great as an April fool's prank...occasional caps lock, number lock, scroll lock, and Windows Key + L, which is a bit annoying. Looks like you could easily use it for many other small projects.

3 people found this helpful

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Daniel

**Small and inexpensive**

Reviewed in the United States on July 21, 2018

**Verified Purchase**

These are cool because they are super small, and also super inexpensive. However, these boards do not have a serial port, so using a USB to serial adapter is required. Also, a button must be pressed on the board immediately before uploading a sketch into a mode which prepares it to upload the new Arduino sketch.

One person found this helpful

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Mark Genovese

**Handy, inexpensive and easy to use microcontroller projects**

Reviewed in the United States on March 6, 2017

**Verified Purchase**

I small low cost microcontroller that is easy to program using the Arduino IDE. I used it to make a servo operated parachute deployment timer for a water balloon launcher. I also bought a second one to make a light wand with some NeoPixel LEDs.

2 people found this helpful

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Alex Cavnar

**GREAT little microcontroller**

Reviewed in the United States on July 7, 2018

**Verified Purchase**

GREAT little microcontroller. However, you have to keep in mind that it only has a ton of RAM, so these are for REALLY tiny projects. 8KB of flash is not enough when you try to use several libraries!

Helpful

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Mr. Irwin

**Works great!!**

Reviewed in the United States on November 19, 2018

**Verified Purchase**

Works great where you can't fit a Arduino Nano and don't need

One person found this helpful

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msu user

**Five Stars**

Reviewed in the United States on June 25, 2018

**Verified Purchase**

Trinket is good especially for doing I2C stuff where not many I/

One person found this helpful

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Technical Ben

**Great little microcontroller project board.**

Reviewed in the United Kingdom on June 5, 2019

**Verified Purchase**

Fits almost anywhere. This thing is tiny. Runs off 5V batteries w  
pinouts/solder points.

2 people found this helpful

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Emilio Lozano

**Perfecto y a un buen precio!**

Reviewed in Mexico on November 25, 2019

**Verified Purchase**

Perfecto, llegó en tiempo y forma!

Funcionó perfecto para el proyecto que tenía en mente, llegó c  
que tengan eso en cuenta sí no saben soldar.

Para subirle el programa deseado en Arduino:

Bajar el archivo con las tarjetas de adafruit, dentro de la misma

Seleccionar la placa para subir el programa (No se puede selecc

Compilar el programa

Antes de subir el programa, presiona y suelta el botón de reset,  
la tarjeta trinket, presiona el botón de subir el programa.

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Amazon Customer

**Nice form factor**

Reviewed in Canada on March 25, 2018

**Verified Purchase**

tricky to get to work with a Linux computer (not officially supp  
able to program it from my Raspberry Pi. Nice form factor, will

for future projects

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Ken Leong

**excellent. it works for my project**

Reviewed in Canada on March 29, 2020

**Verified Purchase**

nothing to dislike works as supposed.

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roderick

**Nice controller**

Reviewed in Canada on October 27, 2019

**Verified Purchase**



Great little product

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