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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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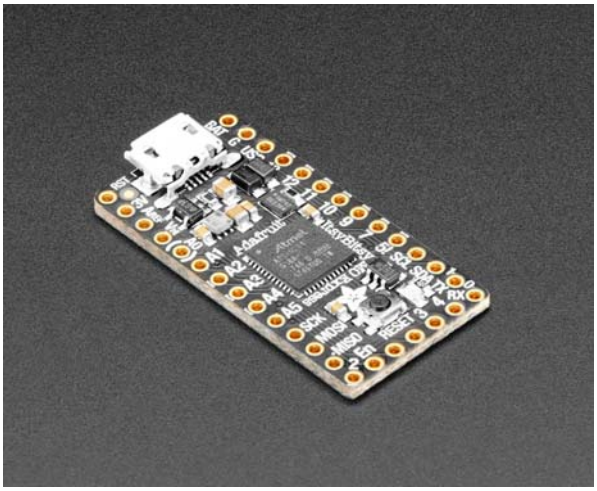
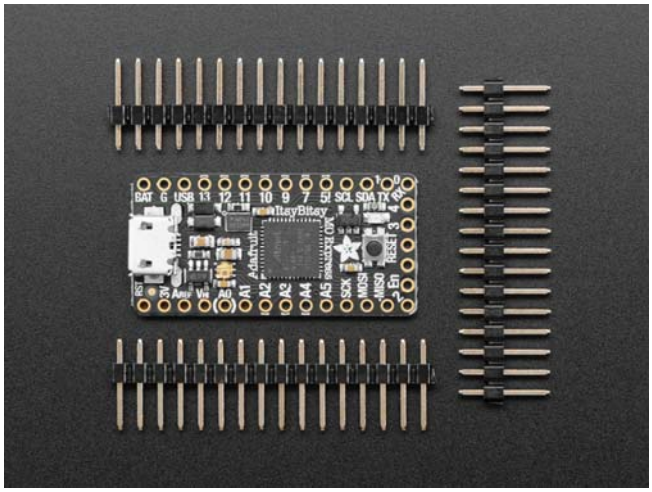




Adafruit ItsyBitsy M0 Express - for CircuitPython & Arduino IDE

PRODUCT ID: 3727

What's smaller than a Feather but larger than a Trinket? It's an Adafruit ItsyBitsy M0 Express! Small, powerful, with a rockin' ATSAMD21 Cortex M0 processor running at 48 MHz - this microcontroller board is perfect when you want something very compact, but still with a bunch of pins.

ItsyBitsy M0 Express is only 1.4" long by 0.7" wide, but has 6 power pins, 23 digital GPIO pins (12 of which can be analog in, 1x analog out, and 13x PWM out). It's the same chip as the Arduino Zero and packs much of the same capability as an Adafruit Metro M0 Express or Feather M0 Express but *really really small*. So it's great once you've finished up a prototype on a Metro M0 or Feather M0, and want to make the project much smaller. It even comes with 2MB of SPI Flash built in, for data logging, file storage, or CircuitPython code.

The most exciting part of the ItsyBitsy M0 is that while you can use it with the Arduino IDE, we are shipping it with CircuitPython on board. When you plug it in, it will show up as a very small disk drive with main.py on it. Edit main.py with your favorite text editor to build your project using Python, the most popular programming language. No installs, IDE or compiler needed, so you can use it on any computer, even ChromeBooks or computers you can't install software on. When you're done, unplug the Itsy' and your code will go with you.

Here are some of the updates you can look forward to when using ItsyBitsy M0:

- Same size, form-factor, and pinout as ItsyBitsy 32u4 3.3V
- ATSAMD21G18 32-bit Cortex M0+ with 256KB Flash and 32 KB RAM
- 3.3V logic, 48 MHz, 32 bit processor
- 2 MB SPI FLASH chip for storing files and CircuitPython code storage.
- Native USB supported by every OS - can be used in Arduino or CircuitPython as USB serial console, Keyboard/Mouse HID, even a little disk drive for storing Python scripts.
- Can be used with Arduino IDE or CircuitPython
- Built in red pin #13 LED
- Built in RGB DotStar LED
- Tons of GPIO! 23 x GPIO pins with following capabilities:
  - 1 x True analog output pin - can be used to play 10-bit quality audio clips
  - 13 x PWM outputs - for servos, LEDs, etc
  - 12 x 12-bit analog inputs
  - 8 x Hardware capacitive touch sensors with no additional components required
  - 1 x Special Vhigh output pin gives you the higher voltage from VBAT or VUSB, for driving NeoPixels, servos, and other high-current devices. Digital 5 level-shifted output for high-voltage logic level output.
  - Can drive NeoPixels or DotStars on any pins, with enough memory to drive 8000+ pixels. DMA-NeoPixel support on the VHigh pin so you can drive pixels without having to spend any processor time on it.
  - Native hardware SPI, I2C and Serial all available
- Reset button and pin
- Power with either USB or external output (such as a battery) - it'll automatically switch over

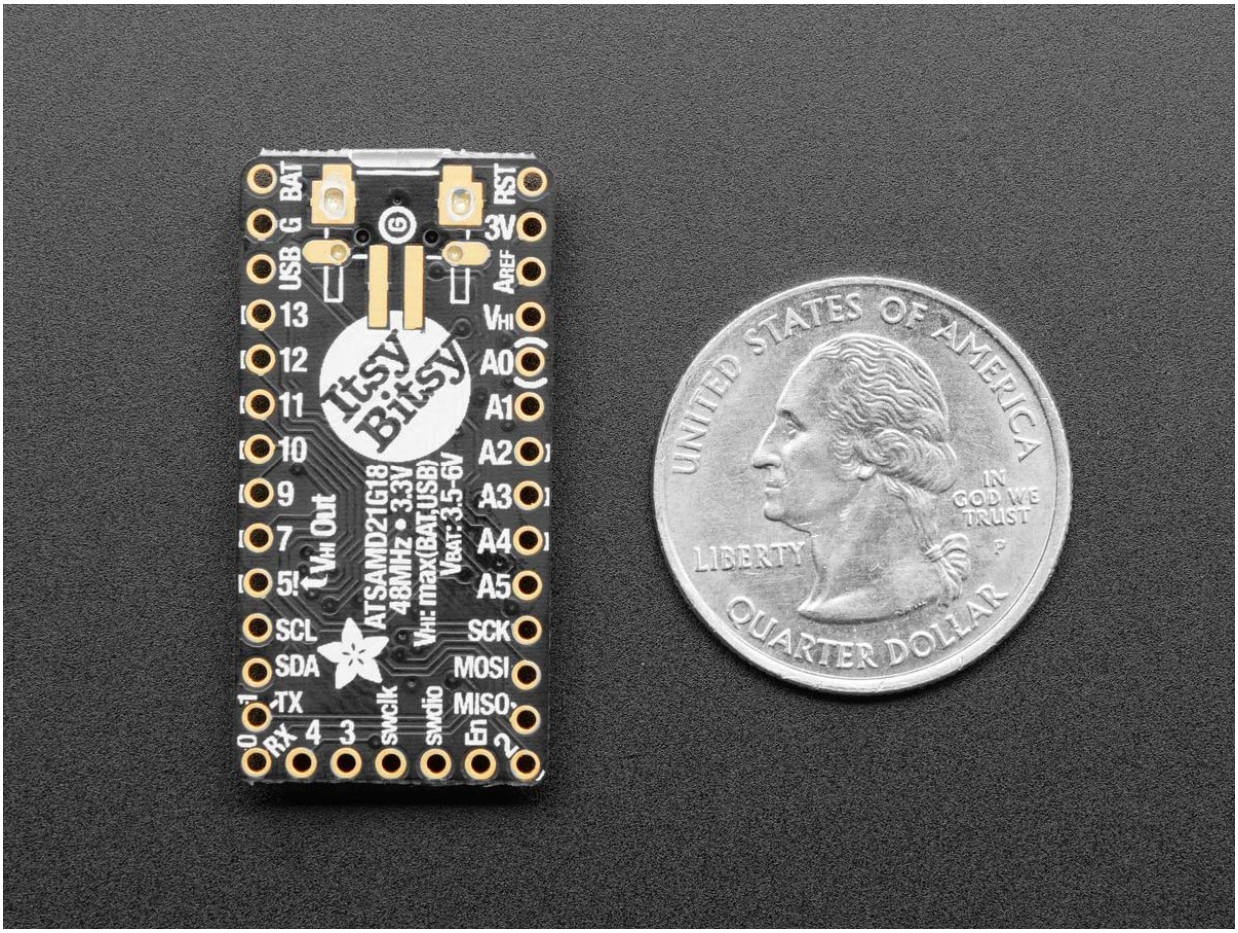
Each order comes with one assembled and tested ItsyBitsy M0, with header that can be soldered in for use with a breadboard. ItsyBity M0 comes with CircuitPython & example code programmed in, but you can replace the code with Arduino if you like

So what are you waiting for? Pick up a ItsyBitsy M0 today and be amazed at how easy and fast it is to get started with CircuitPython!

Technical Details

Product Dimensions: 36.0mm x 17.8mm x 4.3mm / 1.4" x 0.7" x 0.2"

Product Weight: 2.7g / 0.1oz


BAT
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USB
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7
5
SCL
SDA
TX
RX
4
3
swclk
swdio
MISO
RST
3V
AREF
A0
A1
A2
A3
A4
A5
SCK
MOSI
Itsy Bitsy
ATSAMD21G18
48MHz • 3.3V
VHI: max(BAT,USB)
VBAT: 3.5-6V
VHI Out
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LIBERTY
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