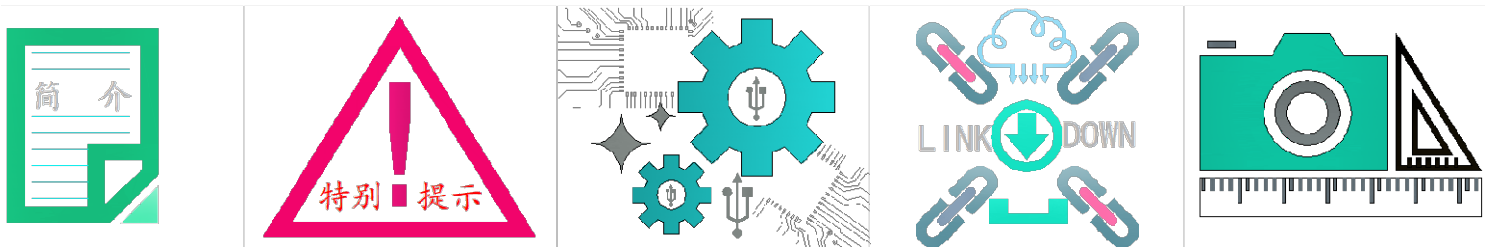


HW-018

ATTINY85 Digispark Kickstarter Miniature USB



Product Introduction:

This product is a micro USB development board, which uses a ATTINY85 chip as an MCU, and can be used as an Arduino through programming. The overall design of the module is small and delicate, which can meet some scenarios that require small size and only a small number of PWM pins.

Product Features:

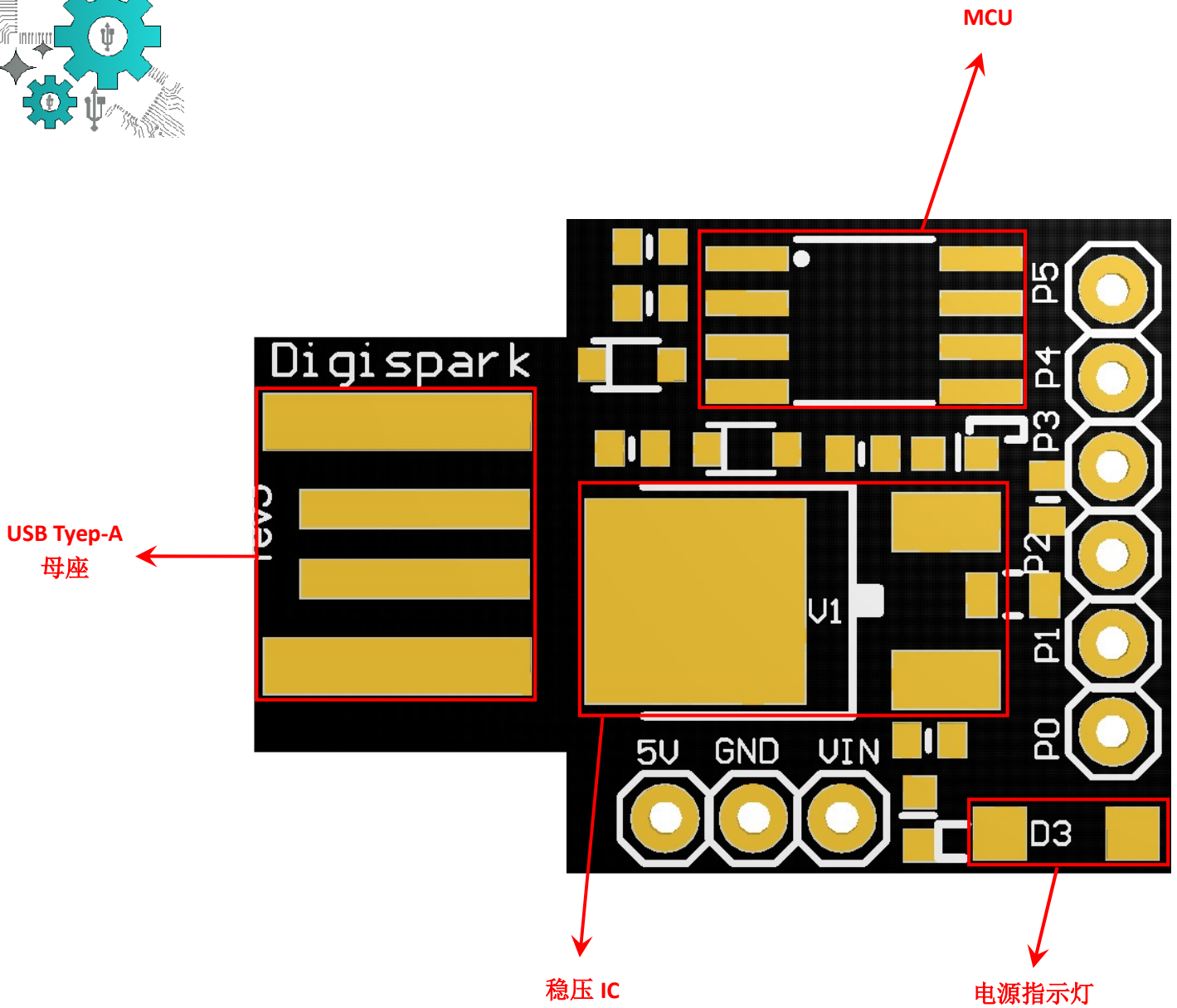
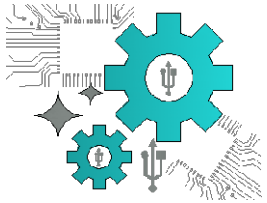
1. In the tank Arduino IDE (OSX/Win/Linux)
2. Able to pass USB or 5V 或 7-35V (Automatic matching) for additional power supply
3. There is one on the motherboard 500mA 5V regulator
4. USB Embedding (Serial Debugging)
5. 6 pins I/O Pins (2 for USB)
6. 8K Flash Memory (about 6K after bootloader)
7. I²C and SPI (via USI)
8. PWM on 3 pins (more possible with Software PWM)
9. ADC on 4 pins
10. Power LED Indicator light and Test/Status LED (at Pin 0)

特别提示

- 1、注意按图示接线，切勿接错。
- 2、本文档仅代表编辑当时的产品认知和参数，后期如有更改恕不另行通知。

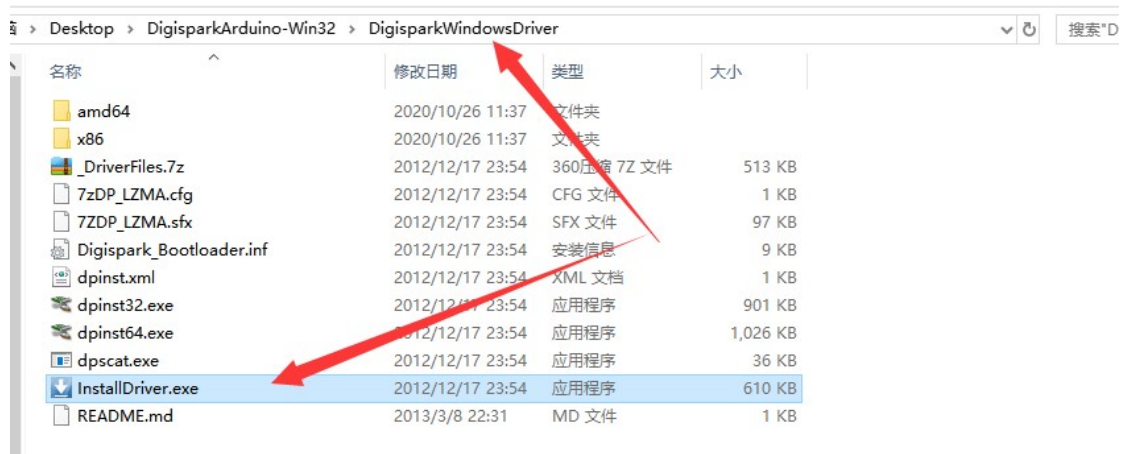


功能图

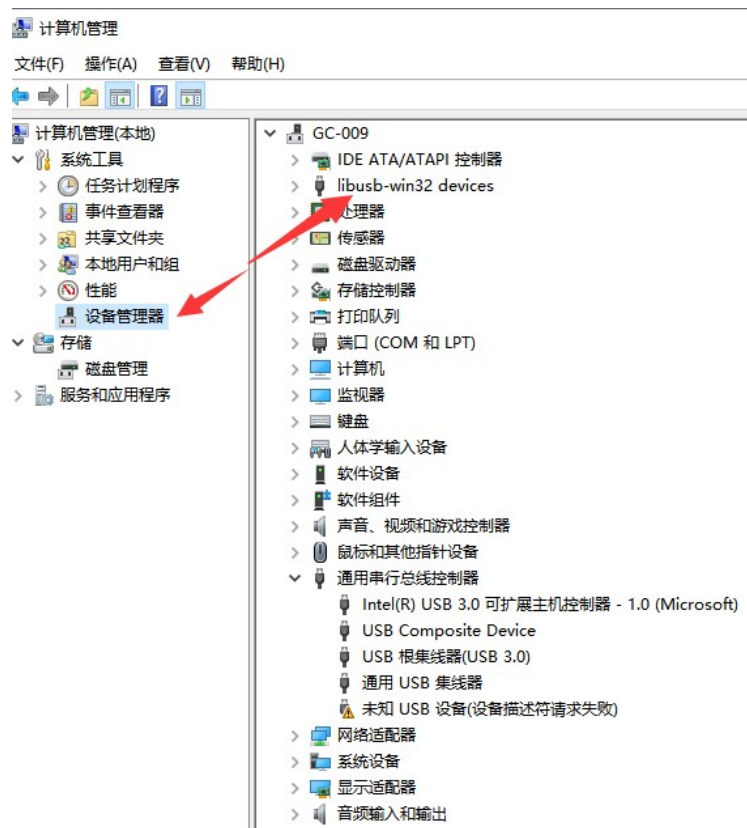


How to use (for reference only):

1. Driver installation: Double-click the driver in the data with the left mouse button to install it as shown below



After the driver is successfully installed, insert the module into the USB port of the computer, and you can see the following figure in the computer device manager (if the device manager will automatically keep refreshing, it is a normal phenomenon, don't care) :(if the driver cannot be installed successfully, please disable the computer digital signature and then reinstall)

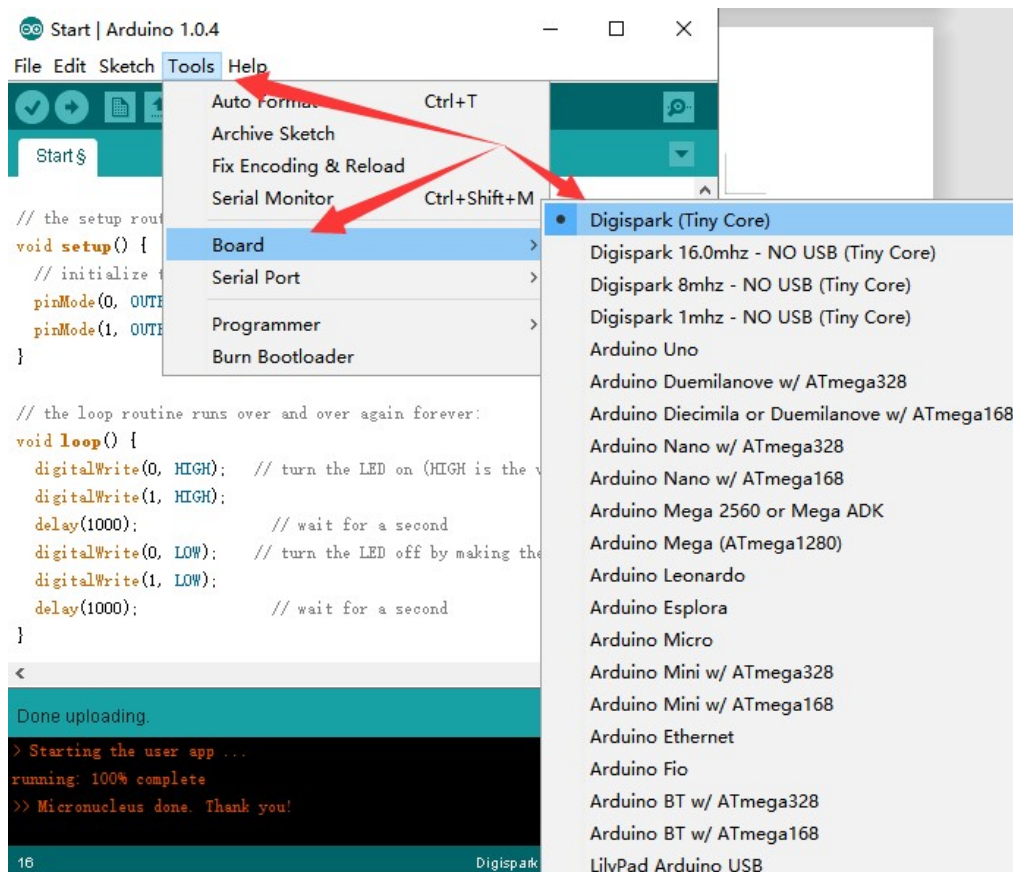


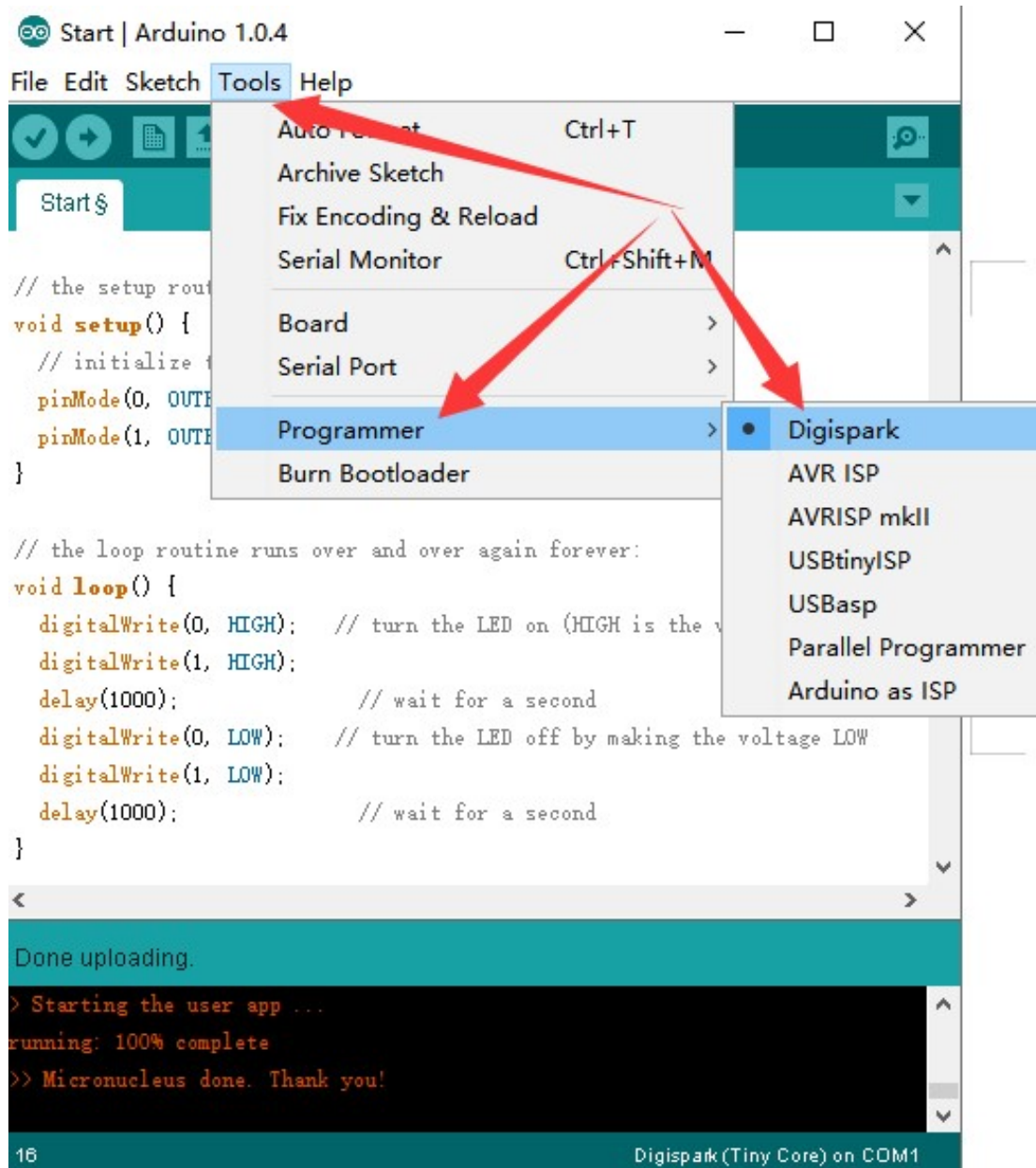
2. Program upload: Double-click the arduino.exe in the data with the left mouse button to open the Arduino software as shown below

Desktop > DigisparkArduino-Win32 > Digispark-Arduino-1.0.4 >

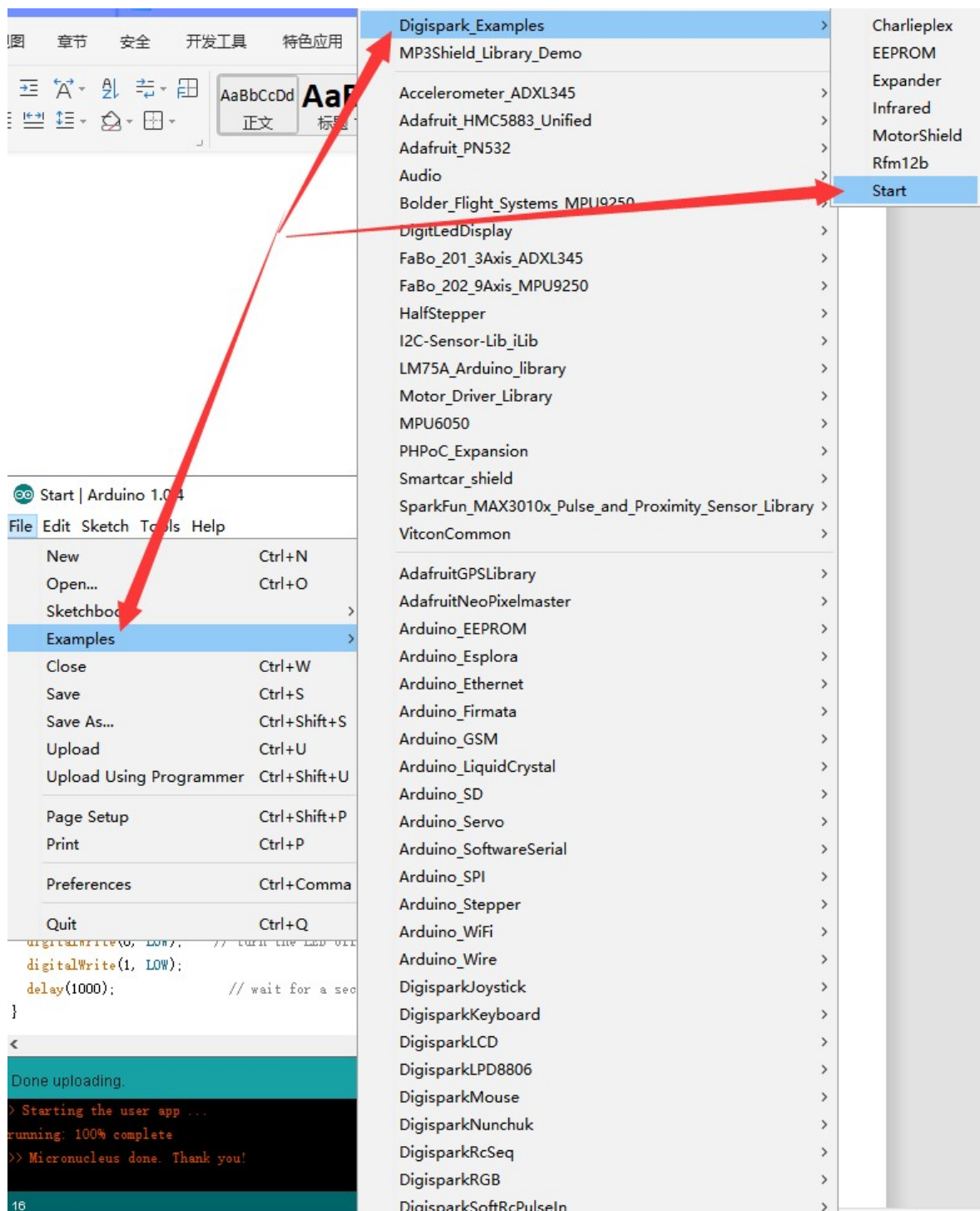
名称	修改日期	类型	大小
drivers	2020/10/26 11:37	文件夹	
examples	2020/10/26 11:37	文件夹	
hardware	2020/10/26 11:37	文件夹	
java	2020/10/26 11:37	文件夹	
lib	2020/10/26 11:37	文件夹	
libraries	2020/10/26 11:37	文件夹	
reference	2020/10/26 11:37	文件夹	
tools	2020/10/26 11:37	文件夹	
arduino.exe	2013/3/17 1:05	应用程序	840 KB
cygiconv-2.dll	2013/3/17 1:05	应用程序扩展	947 KB
cygwin1.dll	2013/3/17 1:05	应用程序扩展	1,829 KB
libusb0.dll	2013/3/17 1:05	应用程序扩展	43 KB
revisions.txt	2013/3/17 1:05	文本文档	37 KB
rxtxSerial.dll	2013/3/17 1:05	应用程序扩展	76 KB

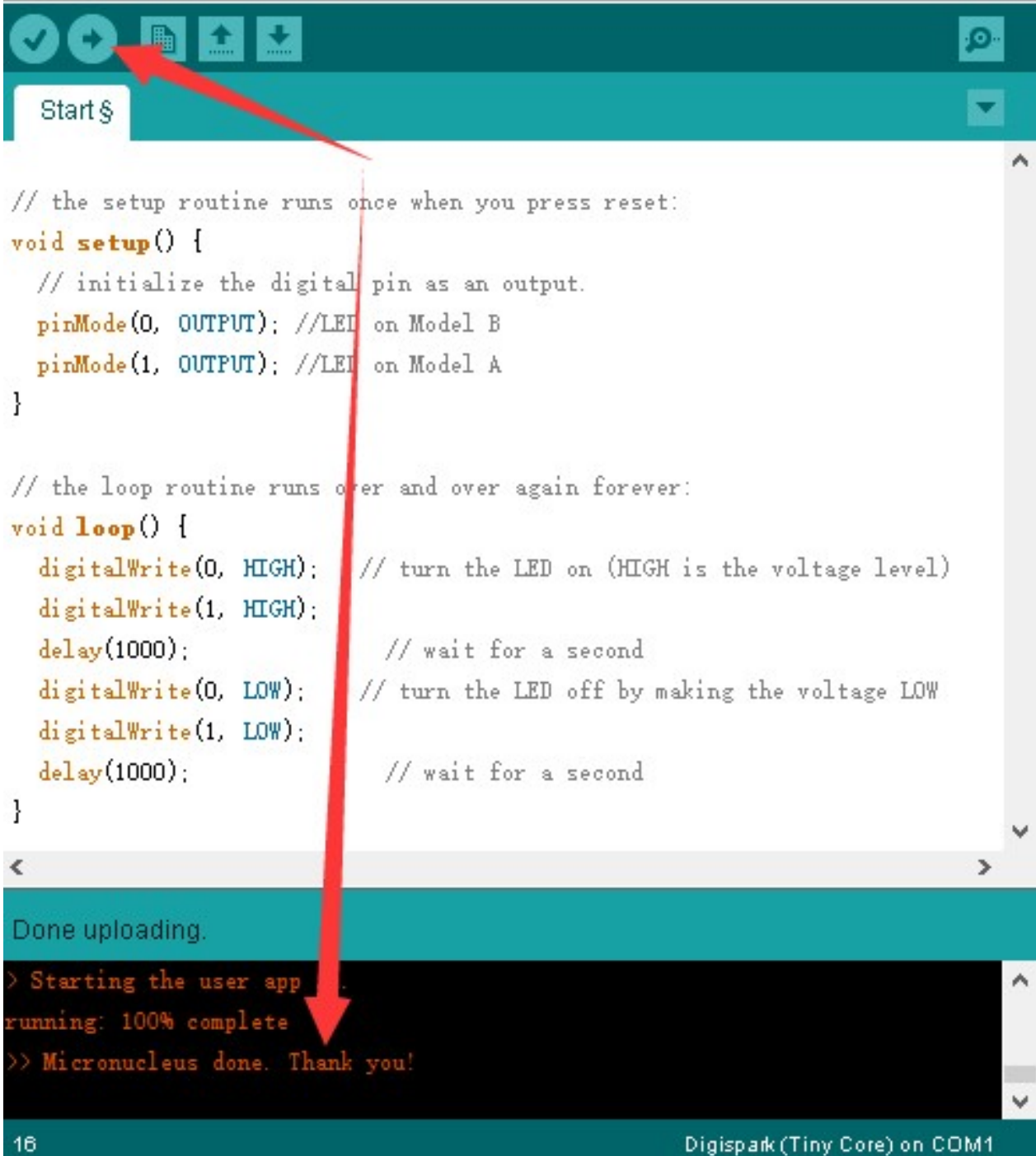
Make the following settings:





Open the example Start:





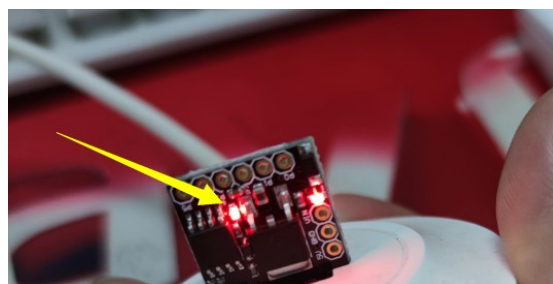
```
// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(0, OUTPUT); //LED on Model B
  pinMode(1, OUTPUT); //LED on Model A
}

// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(0, HIGH); // turn the LED on (HIGH is the voltage level)
  digitalWrite(1, HIGH);
  delay(1000);           // wait for a second
  digitalWrite(0, LOW); // turn the LED off by making the voltage LOW
  digitalWrite(1, LOW);
  delay(1000);           // wait for a second
}
```

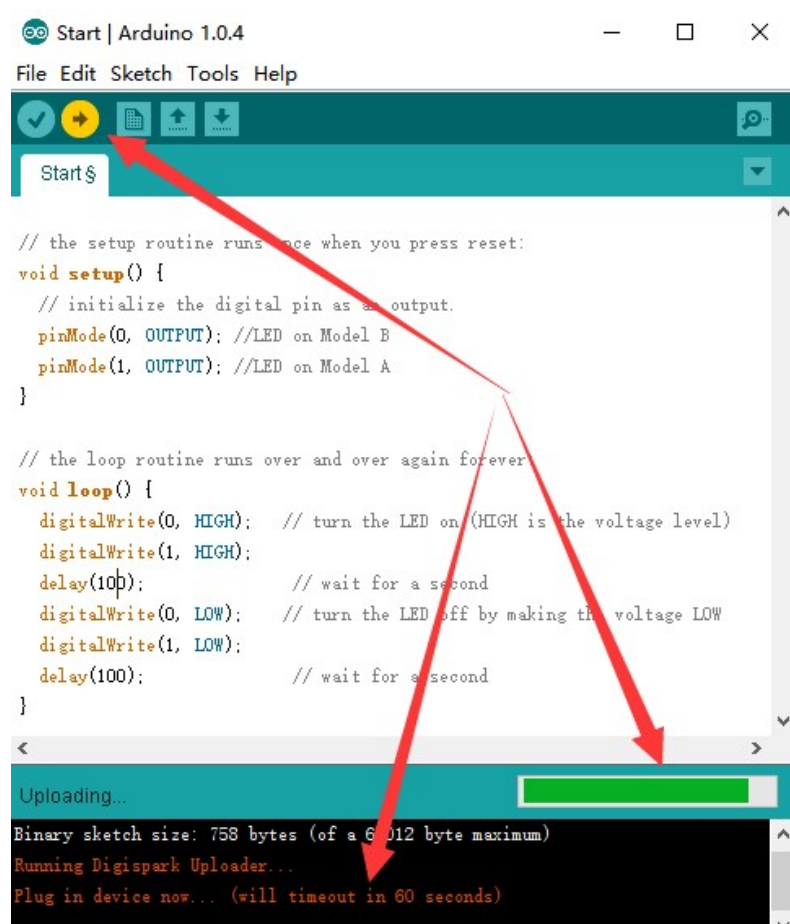
Done uploading.

```
> Starting the user app
running: 100% complete
>> Micronucleus done. Thank you!
```

16 Digispark (Tiny Core) on COM1



If the module has been uploaded once, you need to upload the program again: open the example Start as above, and the module is not connected to the computer first, click Upload directly and wait for the progress bar to reach the following status and "Plug in device now... (will timeout in 60 seconds)" prompts to plug in the device immediately... (will time out after 60 seconds) to plug the module into the USB port of the computer



```
Start | Arduino 1.0.4
File Edit Sketch Tools Help

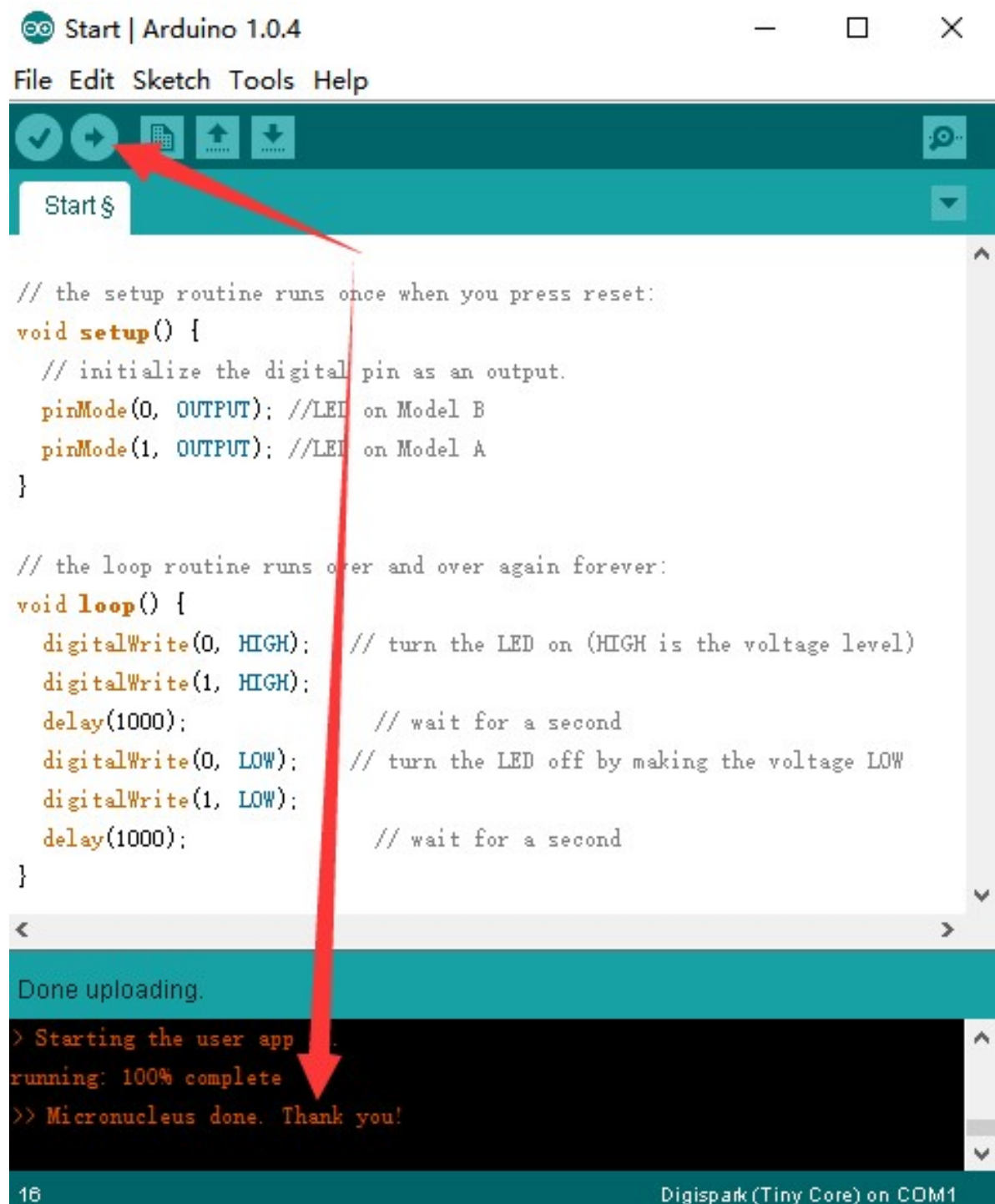
Start $

// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(0, OUTPUT); //LED on Model B
  pinMode(1, OUTPUT); //LED on Model A
}

// the loop routine runs over and over again forever
void loop() {
  digitalWrite(0, HIGH); // turn the LED on (HIGH is the voltage level)
  digitalWrite(1, HIGH);
  delay(100); // wait for a second
  digitalWrite(0, LOW); // turn the LED off by making the voltage LOW
  digitalWrite(1, LOW);
  delay(100); // wait for a second
}

Uploading...
Binary sketch size: 758 bytes (of a 65536 byte maximum)
Running Digispark Uploader...
Plug in device now... (will timeout in 60 seconds)
```

Then Thankyou will appear! That is, the upload is successful:



The screenshot shows the Arduino IDE window titled "Start | Arduino 1.0.4". The menu bar includes "File", "Edit", "Sketch", "Tools", and "Help". The toolbar contains icons for "Check", "Run", "Upload", "Download", and "Search". The main editor area contains the following code:

```
// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(0, OUTPUT); //LED on Model B
  pinMode(1, OUTPUT); //LED on Model A
}

// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(0, HIGH); // turn the LED on (HIGH is the voltage level)
  digitalWrite(1, HIGH);
  delay(1000); // wait for a second
  digitalWrite(0, LOW); // turn the LED off by making the voltage LOW
  digitalWrite(1, LOW);
  delay(1000); // wait for a second
}
```

At the bottom of the window, the status bar displays "Done uploading." and a terminal window shows the following output:

```
> Starting the user app
running: 100% complete
>> Micronucleus done. Thank you!
```

The status bar also shows "16" on the left and "Digispark (Tiny Core) on COM1" on the right.

