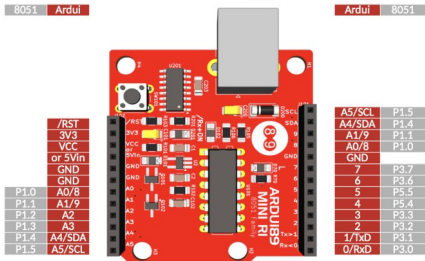
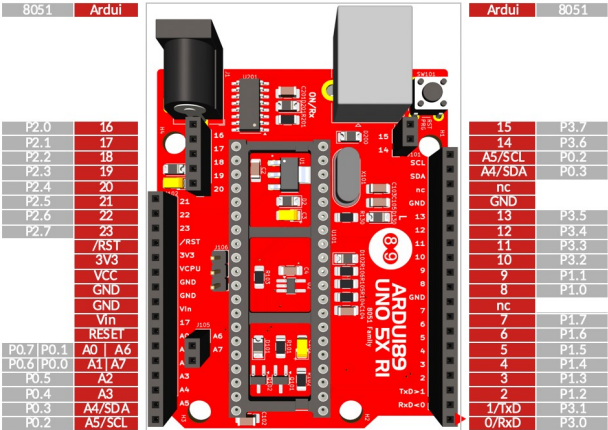


BACCIEL.COM / DATASHEET / USER MANUAL / ARDUI89 FAMILY
(version 2025.05)

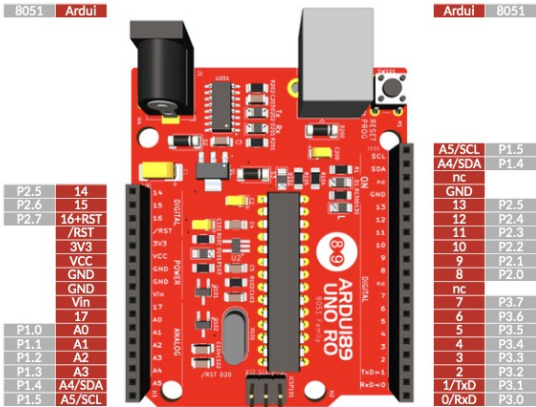
Ardui89 MINI
8051 Family
Based on STC15W408AS-DIP16



Ardui89 Uno 5X
8051 Family
Based on 8051 / 89C5x / 89C51x



Ardui89 UNO
8051 Family
Based on STC15F2K16 (or 32)



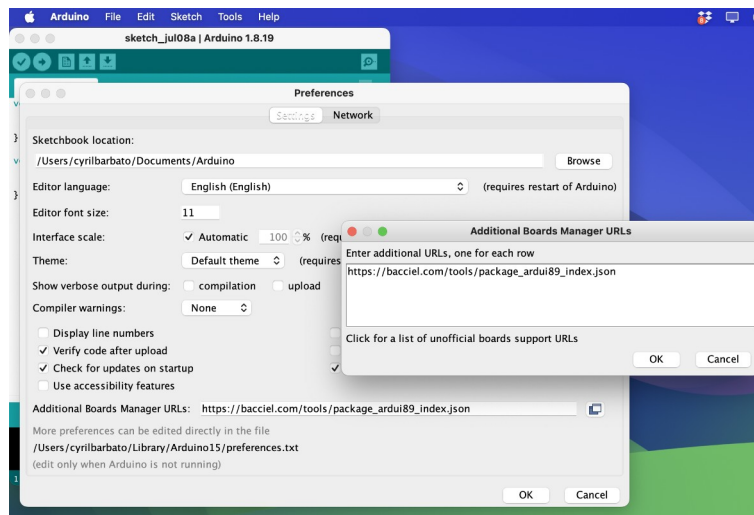
Arduino IDE®

1/ Download Arduino >= V1.8.19

2/ Launch Arduino

3/ In Arduino->Preferences->Additional Board Manager URLs
add

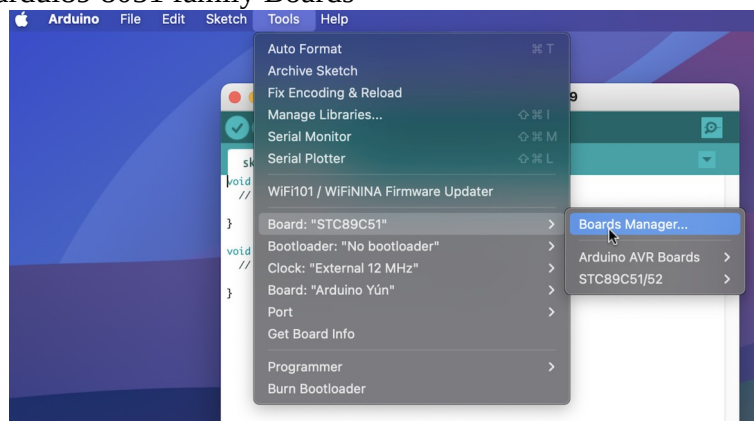
http://bacciel.com/tools/package_ardui89_index.json



4/ In Tools->Boards:...->Board Manager

search "8051"

select and install "ardui89 8051 family Boards"



5/ In Tools->Board:...

select "Board : "STC89C51" "STC89C52" "..."

6/ Demos :

Use Blink.ino in basics examples or in Ardui89_demos path :

Hello.ino

Howareyou.ino

and build and upload !

Examples



Functions Arduino / Ardui89

analogRead(pin) : not include, todo

digitalWrite(pin, state) : since 0.0.1

digitalRead(pin) : not include, todo

delay(ms) : since 0.0.1

delayMicroseconds(us) : since 0.0.1

int_to_string(int) : since 0.3.10, exclusively in C for 8051

memcpy_P(dest, src, size) : since 0.3.10

pinMode : since 0.0.1

PROMEM : since 0.0.1

8051/prgspace.h : since 0.3.10

Serial89Init() : since 0.0.1 exclusively in C for 8051 architecture. Mandatory for using Serial

Example :

```
// Serial port init
#if defined(ARDUINO_ARCH_8051)
Serial89Init(); // Serial 89 init
#endif
```

```
Serial.begin(9600); // Monitor init (F_CPU = 11.0592Mhz)
```

```
// Message
Serial.println("Hello, the world !");
```

Serial.begin(bauds) : since 0.0.1

Serial.print(data) : since 0.0.1 like printf in C, not Arduino C++

Serial.println(data) : since 0.0.1 like printf in C, with \n, not Arduino C++

tone(frequency (, duration)) : since 0.0.1