

# Fishino GUPPY

Fishino Guppy is a shrunk version of Fishino UNO; and is 100% compatible with Arduino Nano, of which it retains connectors shape and position.

Despite the small dimensions, it retains and even surpasses Fishino UNO's connectivity, adding 2 analog ports and providing a switching power supply which allows better efficiency, lower temperature and the ability to use a single cell LiPo battery to power it. Of the Fishino UNO board it misses just the RTC module, because of the small board space; the WiFi module and the microSD connector, which characterise the Fishino board series, are present :

## Fishino Guppy

### Power supply :

- 5Volt from microUSB connector
- 5 Volt in +5V pin
- from 6.5 to 20 Volt on Vin input
- single cell, 3.7 Volt LiPo battery on bat connector

### Digital levels :

- 5 Volt

### Controller :

- 8 bit ATmega 328p-au SMD

### Clock :

- 16 MHz

### Memory :

- 32 KBytes Flash
- 2 KBytes RAM
- 1 KBytes EEPROM

### I/O ports :

- 14 digital ports of which 6 PWM enabled
- 8 analogic inputs
- 2-6 additional 3.3V digital I/O on WiFi module
- 1 additional serial port on WiFi module
- 1 additional analog input on WiFi module

### Available interfaces :

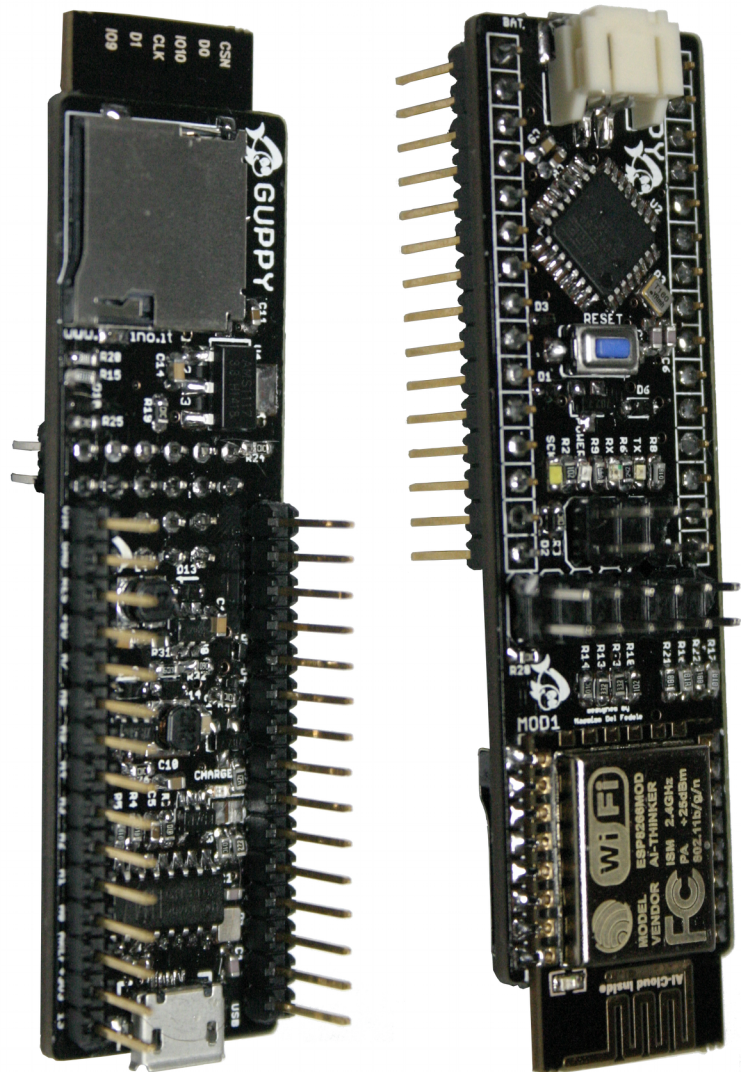
- 1 x SPI
- 1 x I2C

### Additional modules on board :

- WiFi
- microSD connector

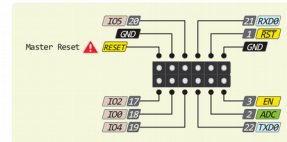
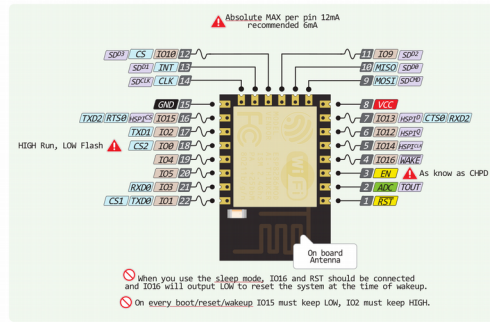
### Special features :

- Full switching power supplies
- Sketches can be uploaded by WiFi



- Arduino IDE
- Power
- GND
- Serial Pin
- Analog Pin
- Control
- INT
- Physical Pin
- Port Pin
- Pin function
- Interrupt Pin
- ~ PWM Pin
- Port Power

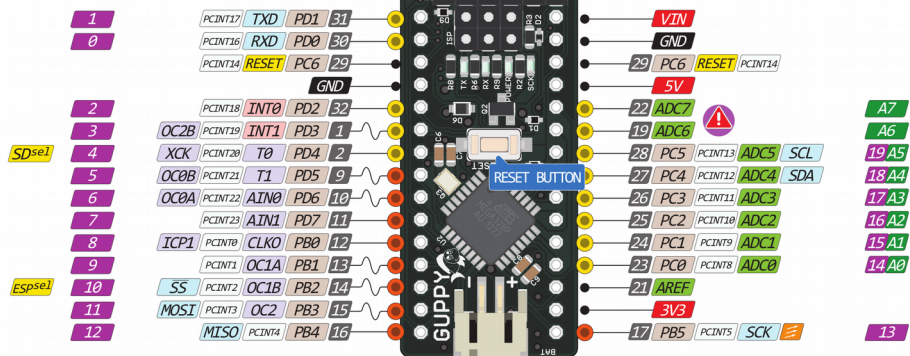
The power sum for each pin's group should not exceed 100mA



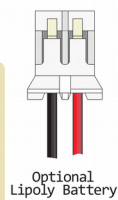
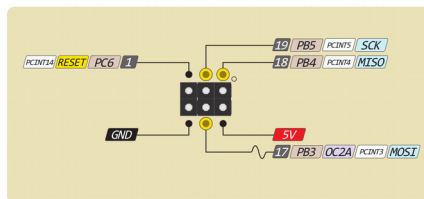
Absolute MAX per pin 20mA recommended 10mA  
 Absolute MAX 200mA for entire package

**3V3** The output from 3.3V Regulator Absolute MAX 800mA

**VIN** The input voltage to the board when it is running from external power. Not USB bus power.



Analog exclusively Pins



## Links :

Official website, with technical details, libraries, demo, apps and firmware updates:  
[www.fishino.com](http://www.fishino.com)

Open-Electronics website with an overview of all Fishino boards family, technical details, articles and demos:  
[www.open-electronics.org/tag/fishino/](http://www.open-electronics.org/tag/fishino/)

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