

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 :

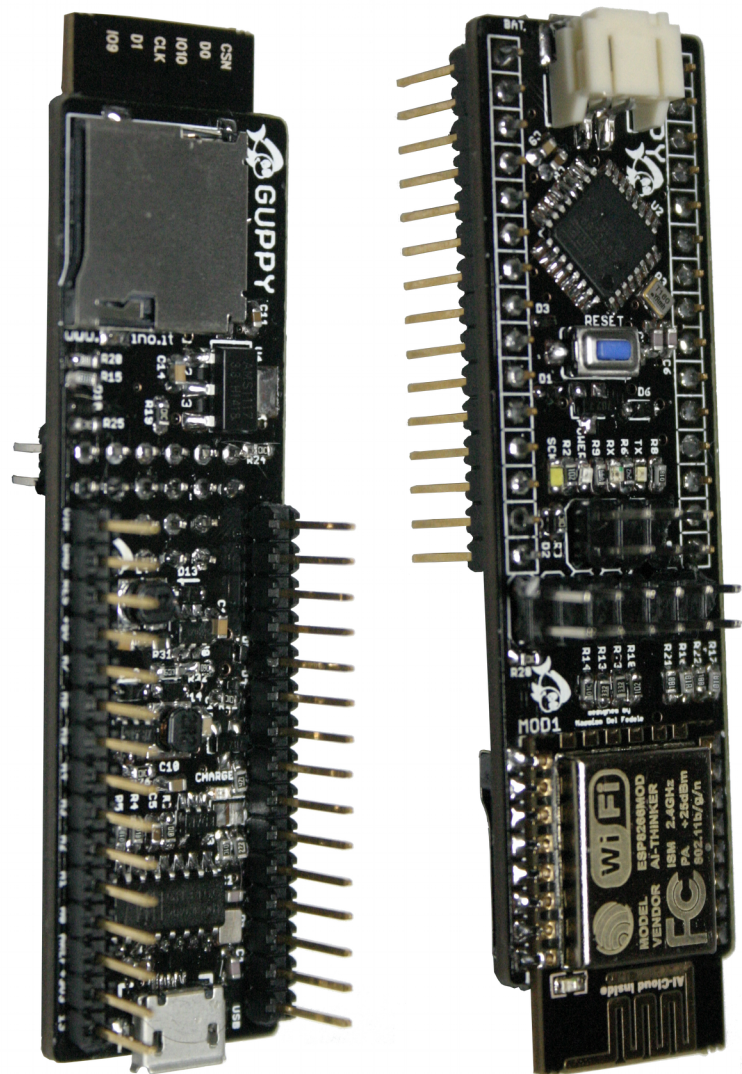
- 1 x SPI
- 1 x I2C

Additional modules on board :

- WiFi
- microSD connector

Special features :

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

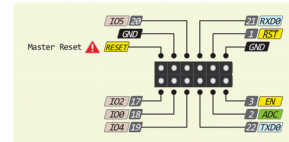
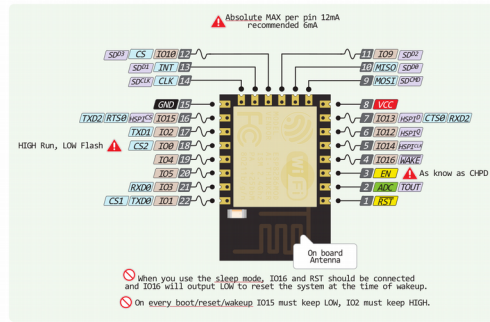


- Arduino IDE
- Power
- GND
- Serial Pin
- Analog Pin
- Control
- INT
- Physical Pin
- Port Pin
- Pin function
- Interrupt Pin
- ~ PWM Pin
- Port Power ⚠

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

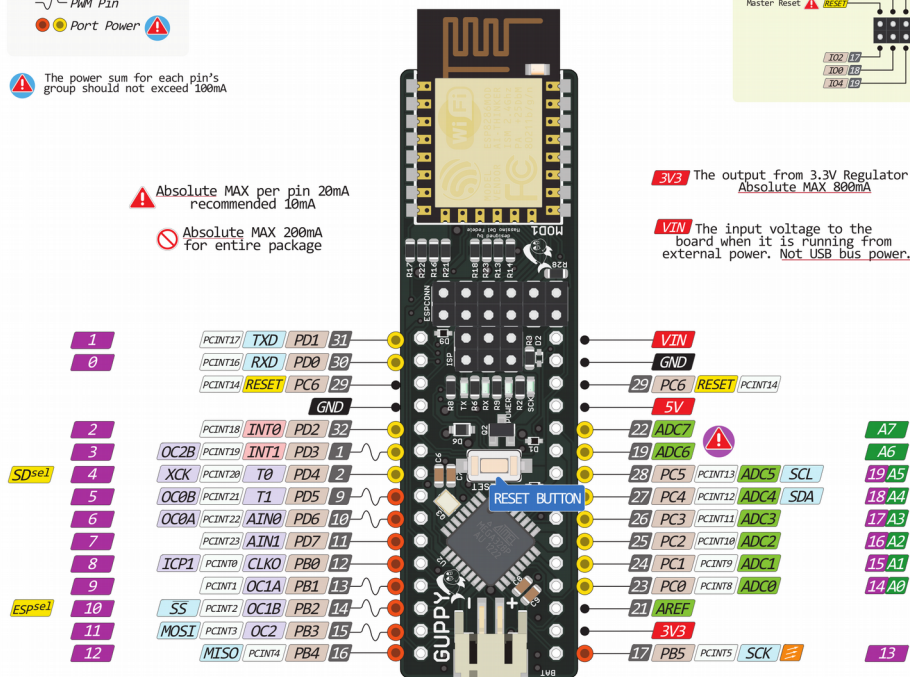
⚠ Absolute MAX per pin 20mA recommended 10mA

⊘ Absolute MAX 200mA for entire package

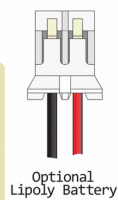
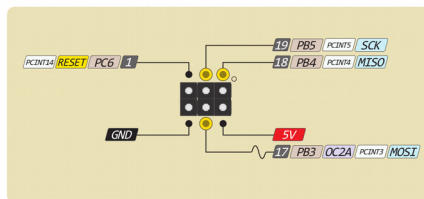


3V3 The output from 3.3V Regulator Absolute MAX 800mA

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

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