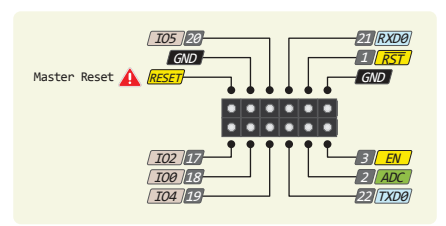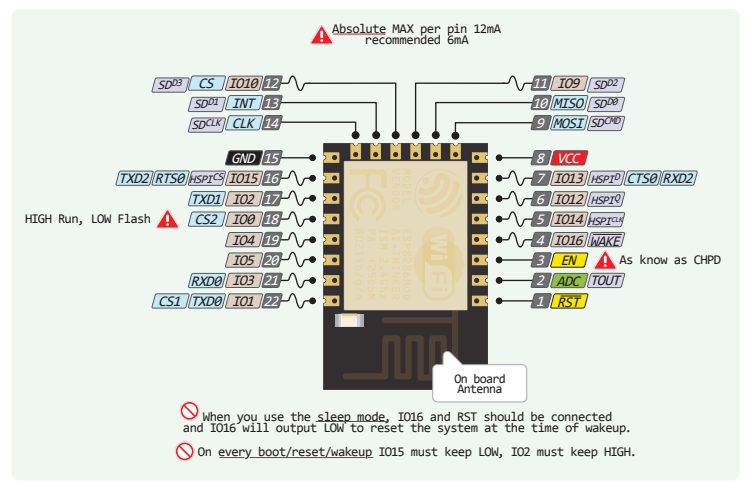# FISHINO GUPPY
www.fishino.it/en
PINOUT

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

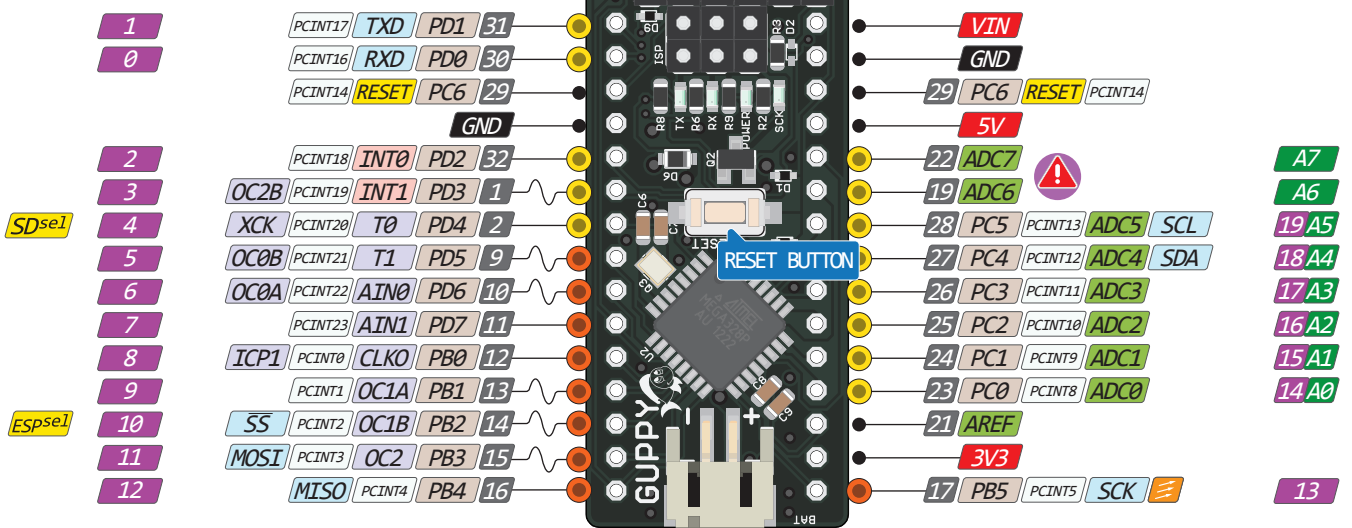⚠ The power sum for each pin's group should not exceed 100mA
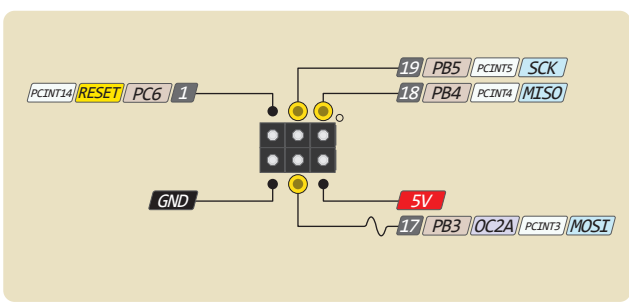
⚠ Absolute MAX per pin 20mA
recommended 10mA

🚫 Absolute MAX 200mA for entire package

⚠ Absolute MAX per pin 12mA recommended 6mA

SD^{D3} CS IO10 12		11 IO9 SD^{D2}
SD^{D1} INT 13		10 MISO SD^{D0}
SD^{CLK} CLK 14		9 MOSI SD^{CMD}
GND 15		8 VCC
TXD2 RTS0 HSPI^{CS} IO15 16		7 IO13 HSPI^D CTS0 RXD2
TXD1 IO2 17		6 IO12 HSPI^Q
CS2 IO0 18		5 IO14 HSPI^{CLK}
IO4 19		4 IO16 WAKE
IO5 20		3 EN
RXD0 IO3 21		2 ADC TOUT
CS1 TXD0 IO1 22		1 RST

HIGH Run, LOW Flash ⚠

⚠ As know as CHPD

On board Antenna

🚫 When you use the sleep mode, IO16 and RST should be connected and IO16 will output LOW to reset the system at the time of wakeup.

🚫 On every boot/reset/wakeup IO15 must keep LOW, IO2 must keep HIGH.

Master Reset ⚠

IO5 20		21 RXD0
GND		1 RST
RESET		GND
IO2 17		3 EN
IO0 18		2 ADC
IO4 19		22 TXD0

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.

GUPPY MOD1

Left side pins:

IDE				Phys
1	PCINT17	TXD	PD1	31
0	PCINT16	RXD	PD0	30
	PCINT14	RESET	PC6	29
			GND	
2	PCINT18	INT0	PD2	32
3	OC2B PCINT19	INT1	PD3	1
SDsel 4	XCK PCINT20	T0	PD4	2
5	OC0B PCINT21	T1	PD5	9
6	OC0A PCINT22	AIN0	PD6	10
7	PCINT23	AIN1	PD7	11
8	ICP1 PCINT0	CLK0	PB0	12
9	PCINT1	OC1A	PB1	13
ESPsel 10	SS PCINT2	OC1B	PB2	14
11	MOSI PCINT3	OC2	PB3	15
12	MISO PCINT4	PB4		16

Right side pins:

VIN
GND
29 PC6 RESET PCINT14
5V

					IDE
22	ADC7				A7
19	ADC6	⚠			A6
28	PC5	PCINT13	ADC5	SCL	19 A5
27	PC4	PCINT12	ADC4	SDA	18 A4
26	PC3	PCINT11	ADC3		17 A3
25	PC2	PCINT10	ADC2		16 A2
24	PC1	PCINT9	ADC1		15 A1
23	PC0	PCINT8	ADC0		14 A0
21	AREF				
	3V3				
17	PB5	PCINT5	SCK		13

RESET BUTTON

⚠ Analog exclusively Pins

Optional Lipoly Battery

ISP header (bottom left):

PCINT14 RESET PC6 1		19 PB5 PCINT5 SCK
		18 PB4 PCINT4 MISO
GND		5V
		17 PB3 OC2A PCINT3 MOSI