

Fishino MEGA

Fishino Mega is an evolution of Fishino UNO, and it's 100% compatible with Arduino Mega. Having bigger dimensions, it provides many more I/O ports and bigger processor's memories than Fishino UNO; it can also be powered by a single cell LiPo battery, with embedded charger:

Fishino Mega

Power supply:

- 5Volt from microUSB connector
- 5 Volt in +5V pin
- from 3.5 to 20 Volt on Vin input
- from 3.5 to 20 Volt on supply plug
- single cell, 3.7 Volt LiPo battery on bat connector

Digital levels :

- 5 Volt

Controller :

- 8 bit ATmega 2560

Clock :

- 16 MHz

Memory :

- 256 KBytes Flash
- 8 KBytes RAM
- 4 KBytes EEPROM

I/O ports :

- 54 digital ports of which 16 PWM enabled
- 16 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 :

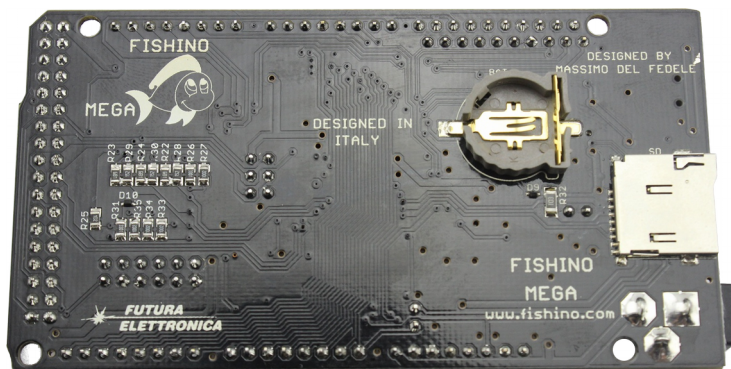
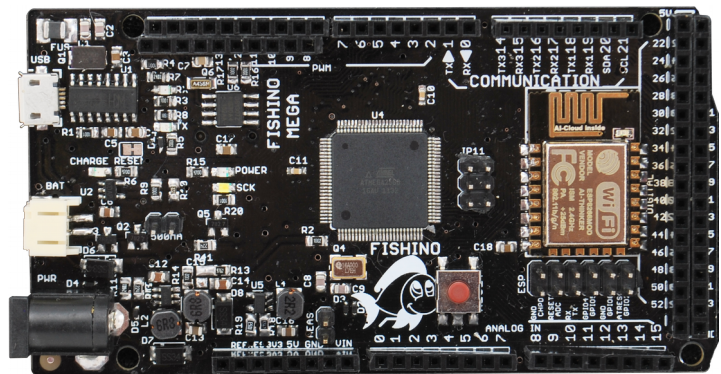
- 1 x SPI
- 1 x I2C

Additional modules on board :

- WiFi
- microSD connector
- RTC module with backup battery

Special features :

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



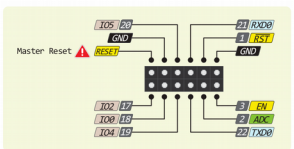
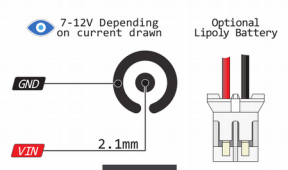
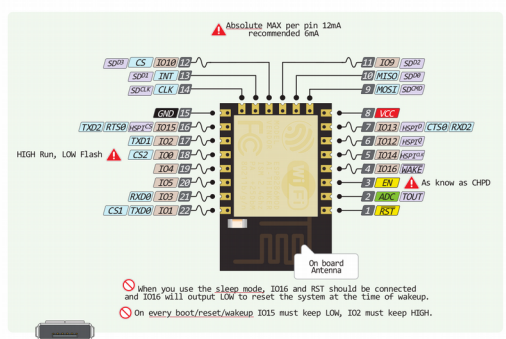
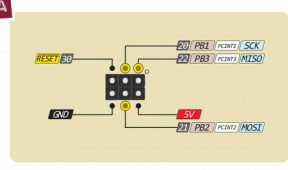
- IDE
- Power
- GND
- Serial Pin
- Analog Pin
- Control
- INT
- Physical Pin
- Port Pin
- Pin function
- Interrupt Pin
- PWM Pin
- Port Power

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

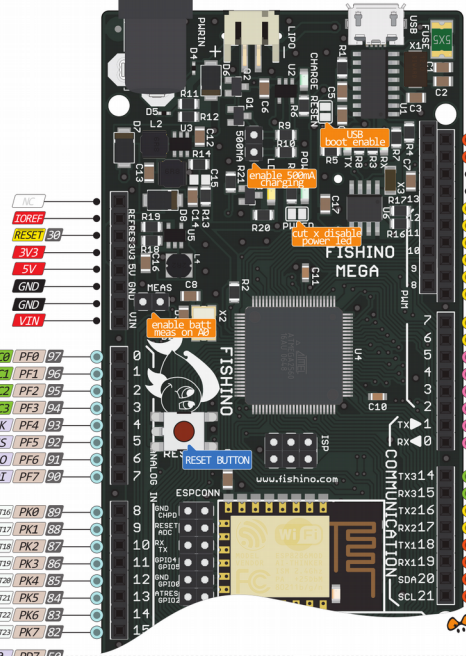
IOREF provides a logic reference voltage for shields that use it. It is connected to the 5V bus.

3V3 The output from 3.3V Regulator Absolute MAX 600mA

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

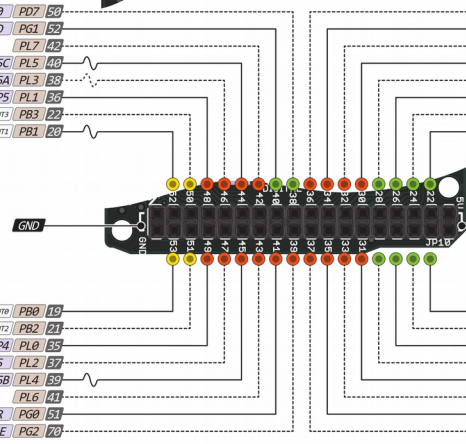


- 54 A0
- 55 A1
- 56 A2
- 57 A3
- 58 A4
- 59 A5
- 60 A6
- 61 A7
- 62 A8
- 63 A9
- 64 A10
- 65 A11
- 66 A12
- 67 A13
- 68 A14
- 69 A15



- 43 PD0 INT0 SCL
- 42 PD1 INT1 SDA
- 38 AREF
- 37 GND
- 25 PB7 PCINT7 OC1C
- 25 PB6 PCINT6 OC1B
- 24 PB5 PCINT5 OC1A
- 23 PB4 PCINT4 OC2A
- 13 PH6 OC2B
- 12 PH5 OC2C
- 11 PH4 OC2B
- 10 PH3 OC2A
- 9 PE3 AIN1 OC3A
- 8 PG5 OC3B
- 7 PE5 INT5 OC3C
- 6 PE4 INT4 OC3B
- 5 PEL TXD0
- 4 PE0 PCINT0 RXD0
- 14 PJ1 PCINT10 TXD3
- 15 PJ0 PCINT9 RXD3
- 16 PH1 TXD2
- 17 PH0 RXD2
- 18 PD3 INT3 TXD1
- 19 PD2 INT2 RXD1
- 20 PD1 INT1 SDA
- 21 PD0 INT0 SCL
- 36 PCI A9
- 34 PCS A11
- 32 PCS A13
- 30 PC7 A15
- 28 PA6 AD6
- 26 PA4 AD4
- 24 PA2 AD2
- 22 PA0 AD0
- 23 PA1 AD1
- 25 PA3 AD3
- 27 PA5 AD5
- 29 PA7 AD7
- 31 PC6 A14
- 33 PC4 A12
- 35 PC2 A10
- 37 PC0 A8

- 38 T0 PD7 E0
- 40 RD PG1 E2
- 42 PL7 E3
- 44 OCSC PL5 E0
- 46 OC5A PL3 E8
- 48 ICPS PL1 E6
- 50 MISO PCINT3 PB3 E2
- 52 SCK PCINT1 PB1 E0
- 53 SS PCINT0 PB0 E9
- 51 MOSI PCINT2 PB2 E1
- 49 ICRA PL0 E5
- 47 TS PL2 E7
- 45 OCSB PL4 E9
- 43 PL6 E1
- 41 WR PG0 E1
- 39 ALE PG2 E0



⚠ Absolute MAX per pin 20mA recommended 10mA

⚠ Absolute MAX 200mA for entire package



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/