Fishino32

With Fishino32 begins the new Fishino series with 32 bit controllers, which brings exceptional performances and reduced power consumption, adding new functionalities.

Fishino32 is compatible with Fishino UNO, of which it retains the layout, allowing the usage of all Arduino shields available

Besides the similar appearance, its heart is a monster running with a 120 MHz clock, 7.5 times Fishino UNO's processor, and with Flash and RAM memories much bigger.

As processor's performances can soustain it, we added an Hi-Fi stereo audio codec, which allows recording and playing back audio samples and, in future, voice recognition.

As in all boards that came after Fishino UNO we've foreseen the switching power supply, which allows battery usage, with an on-board charger. Even more, we can power off most of the board by software, leaving just the processor's core running in low-power mode and able to be awaken on external events or on internal RTC module's requests :

Fishino 32

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 :
- 3.3 Volt, with 5 Volt tolerant digital I/Os

Controller :
- PIC32MX470F512H

Clock :
- 120 MHz, software manageable

Memory:
- 512 KBytes Flash
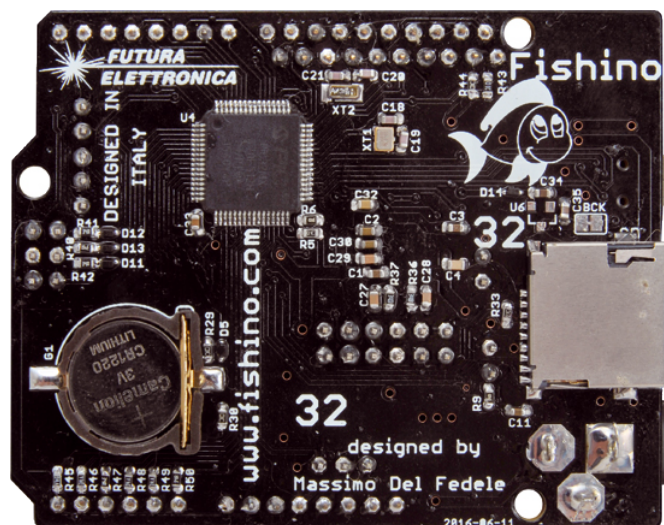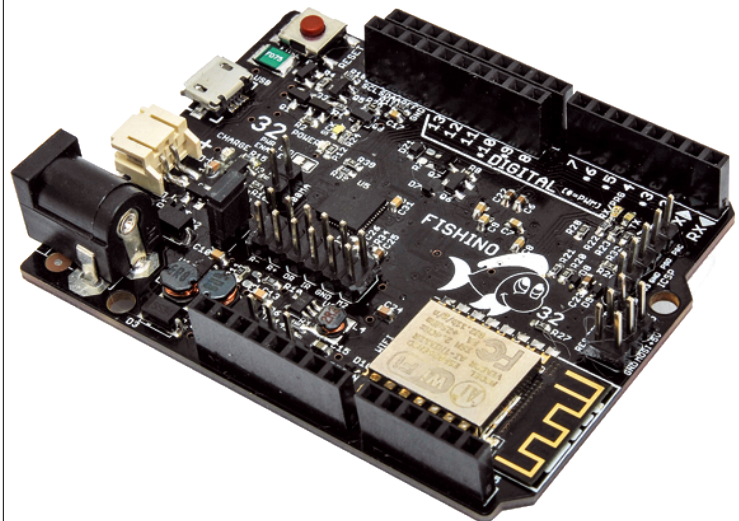- 128 KBytes RAM

I/O ports :
- 14 digital ports of which 5 PWM enabled
- 6 analogic inputs
- 2 additional 3.3 Volt digital ports

Available interfaces :
- 1 x SPI external
- 1 x SPI / I2S internal
- 1 x I2C

Additional modules on board :
- WiFi
- microSD connector
- Embedded RTC module inside controller
- High definition stereo audio codec
- Full supply software control

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/