SAMD21 introduction

Since 2015, there is a new powerful microcontroller available which can be programmed by the Arduino platform: the SAMD21. It is a 48MHz 32-bit ARM Cortex M0+ low power processor. Since it is quite new, there is not so much information about it on the Internet.

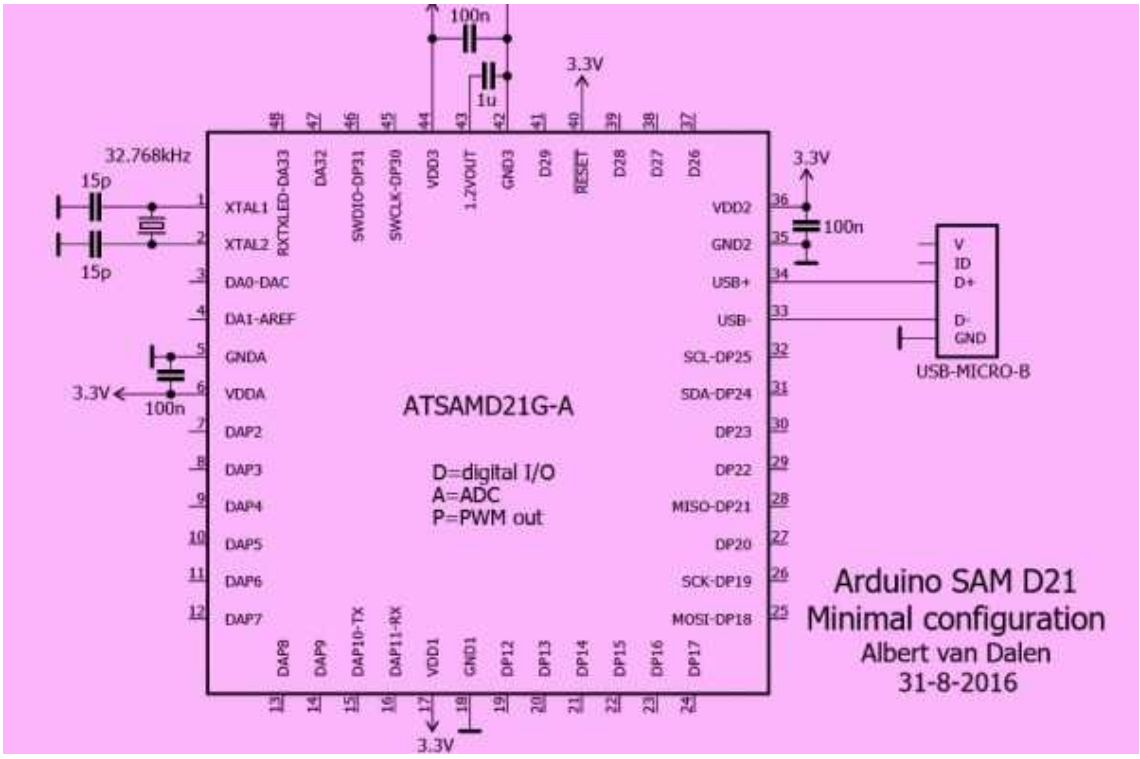
SAMD21G peripheral functions

There are 34 free pins available *. The most important pin peripheral functions are indicated with letters in the schematic symbol:

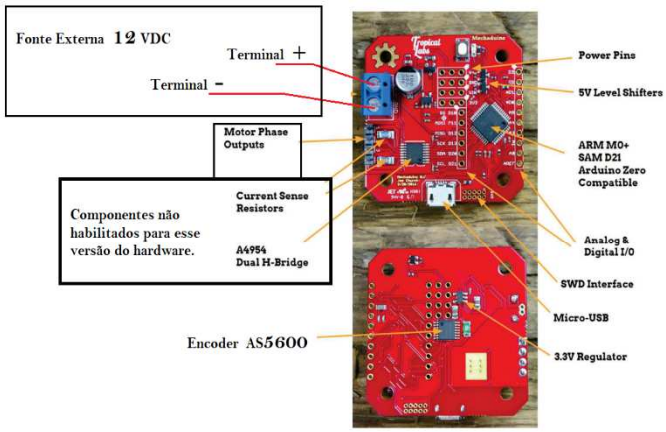
D = general purpose I/O, digitalWrite(), digitalRead()
A = ADC analog input, analogRead()
P = PWM output, analogWrite()

Pins may have many other peripheral functions, but in order not to lose overview, these are not indicated with a letter in the schematic symbol:

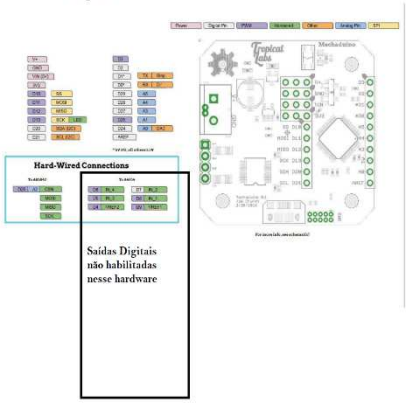
External Interrupt
Comparator Output
Serial Communication
External Voltage Reference
Inter-IC Sound Controller
Peripheral Touch Controller



Board Layout



Pin Diagram



Power Connections