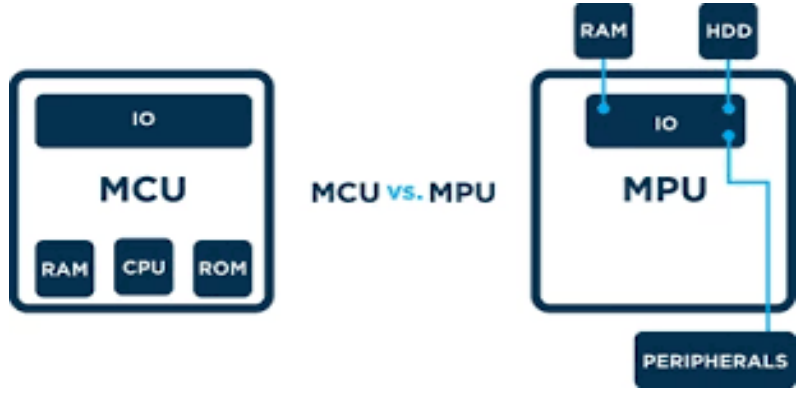
Electronics Club

Arduino Basics

MICRO PROCESSOR	MICRO CONTROLLER
•Part of computer systems •Memory and i/o components should be added via external circuitry SO •whole system cost is relatively high •Not suitable in compact systems. •Relatively slow due to external processing.	•Part of embedded systems •Memory and i/o components are internally present. SO •whole system cost is less •Can be used in compact systems. •Fast due to internal processing.

POWER CONSUMPTION:-

MPU:-	MCU:-
•Relatively high power consumption •No special power saving modes	•Lower power consumption •Has power saving modes

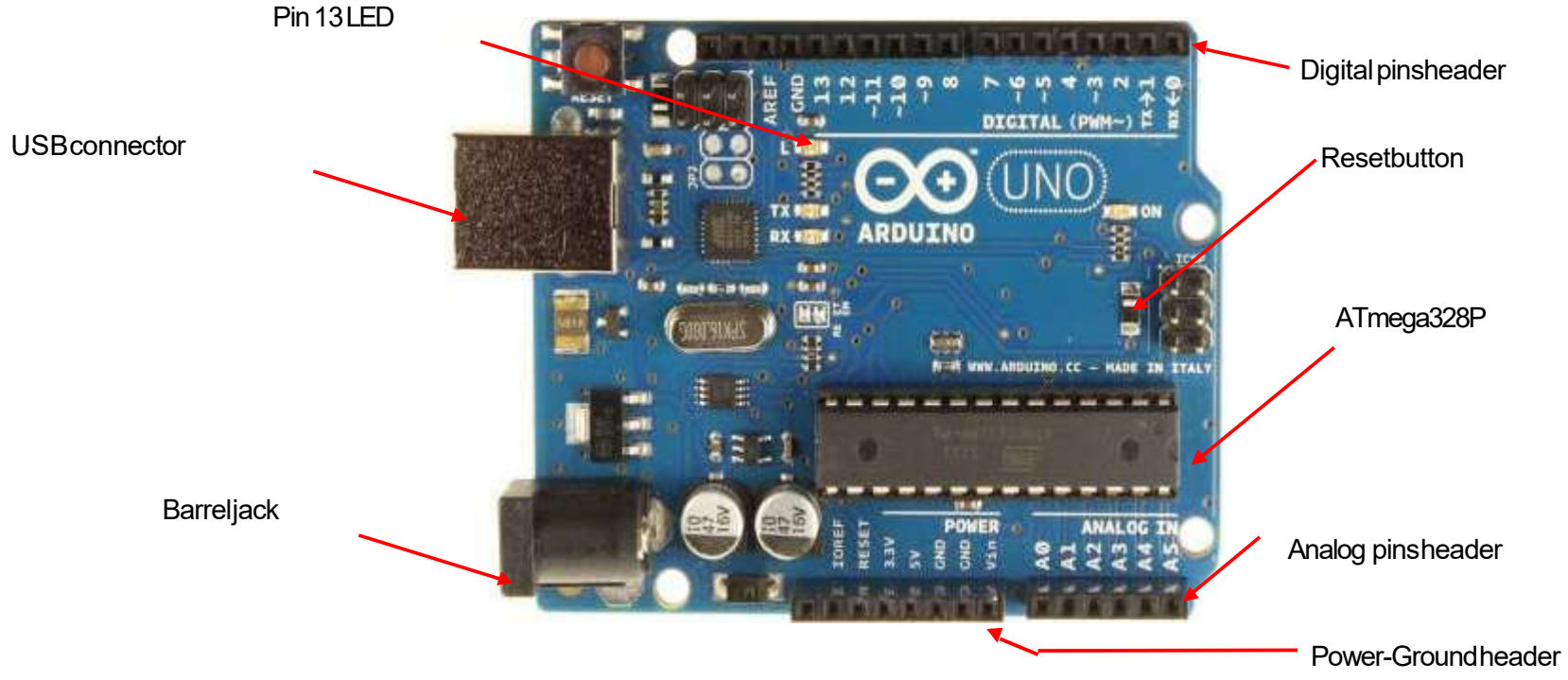


What is an Arduino?

Single-board microcontroller, intended to make the application of interactive objects or environments more accessible.

Designed to make the process of using electronics multidisciplinary projects more accesible.

The basic Arduinoboard



Arduino UNO Board

Writing Code for Arduino

- Uses its own language similar to C ++, called Processing
- Has its own IDE with examples (open source)

Advantages of Arduino

- Open source
- Simplified and user-friendly programming language
- No additional programmer/burner hardware required for programming board
- Portable
- Low power consumption