



Universidad Politécnica de Madrid

Uso del IoT para construir tú mismo un hogar digital

Entorno de prototipado basado en Arduino

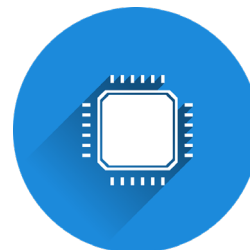
Santiago Berrezueta

¿Qué queremos hacer?

Objetos inteligentes

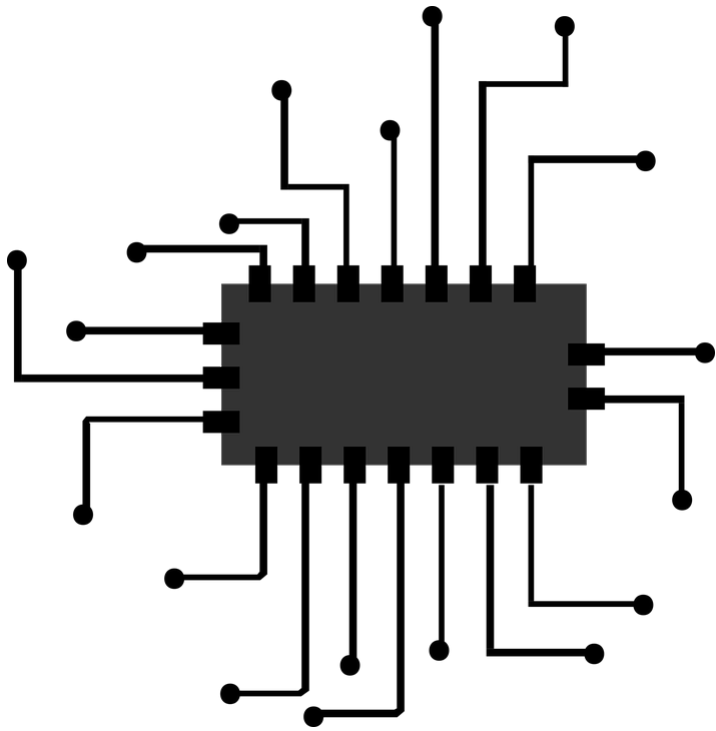


Hogar digital



Microcontroladores

Microcontrolador



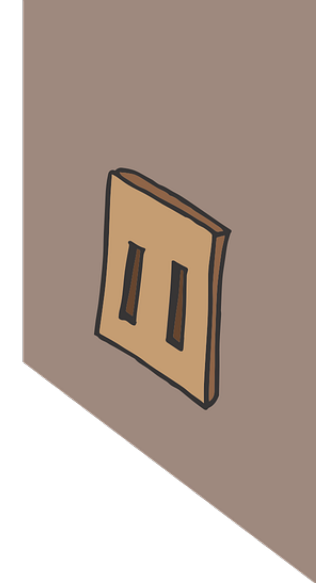
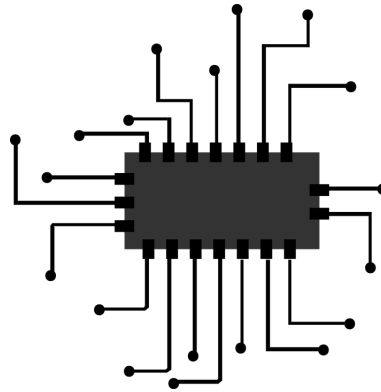
Memoria

UCP

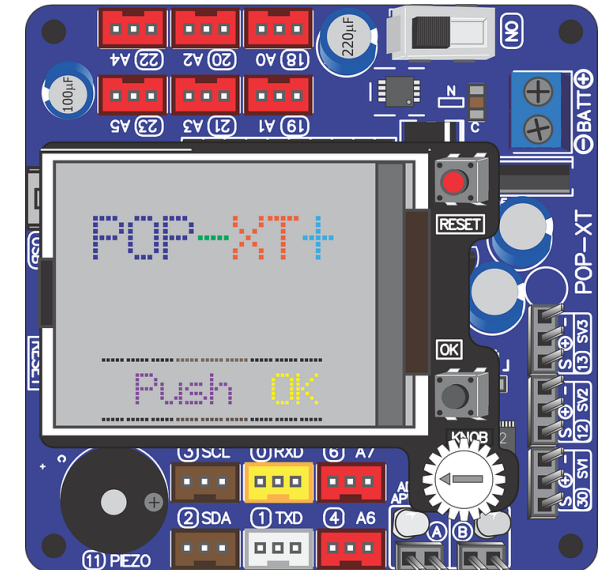
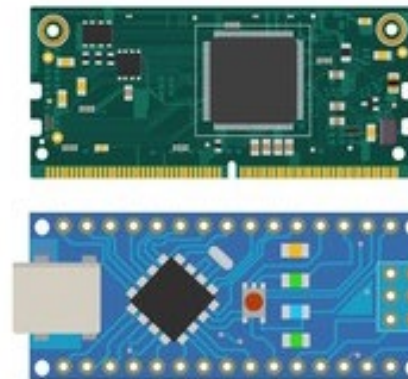
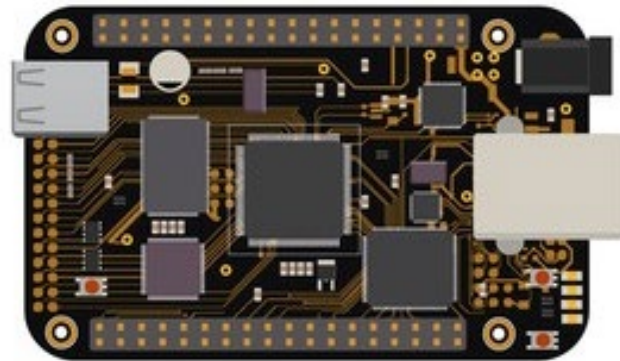
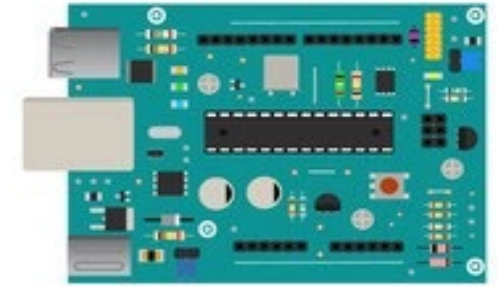
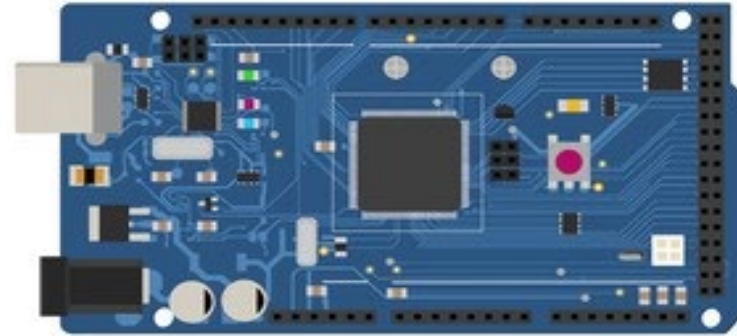
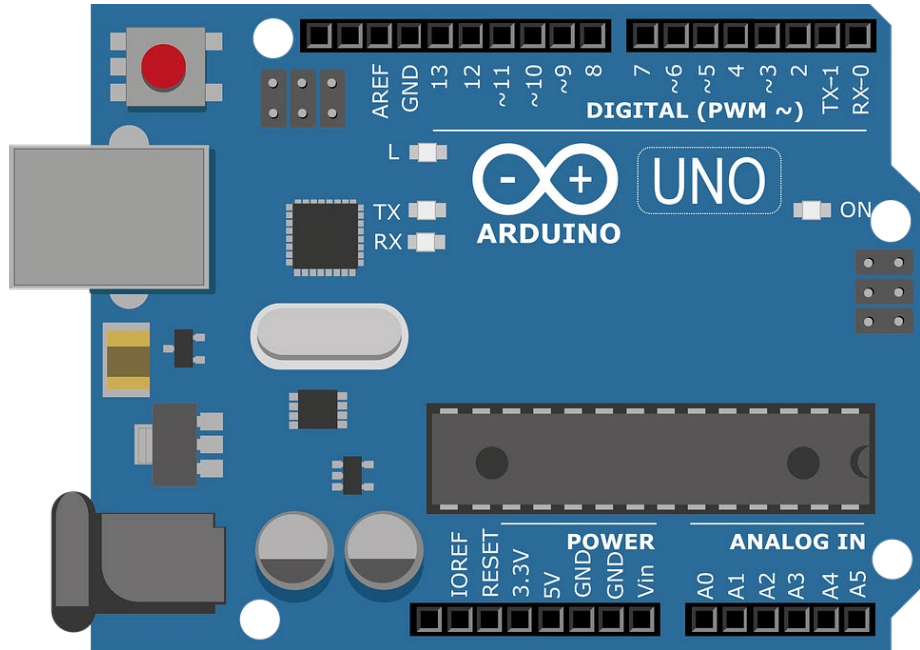
Periféricos

I/O

Programación



Microcontrolador



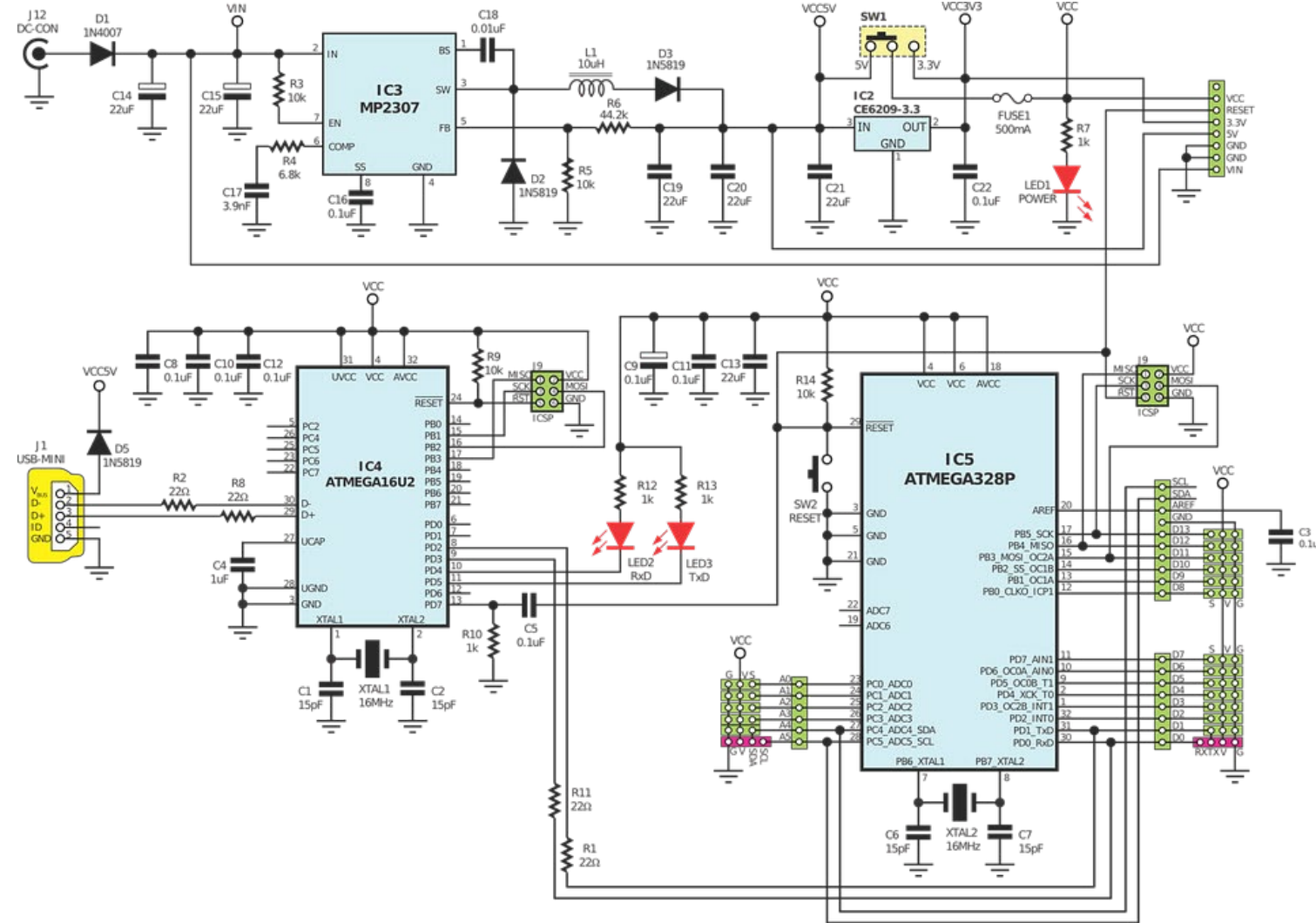
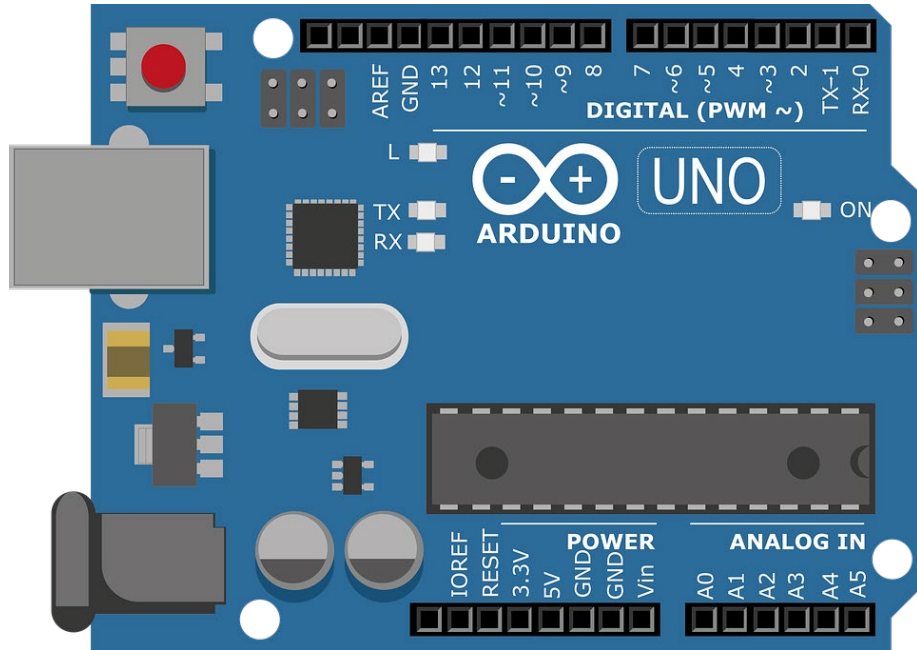
ARDUINO



POLITÉCNICA



Universidad Politécnica de Madrid



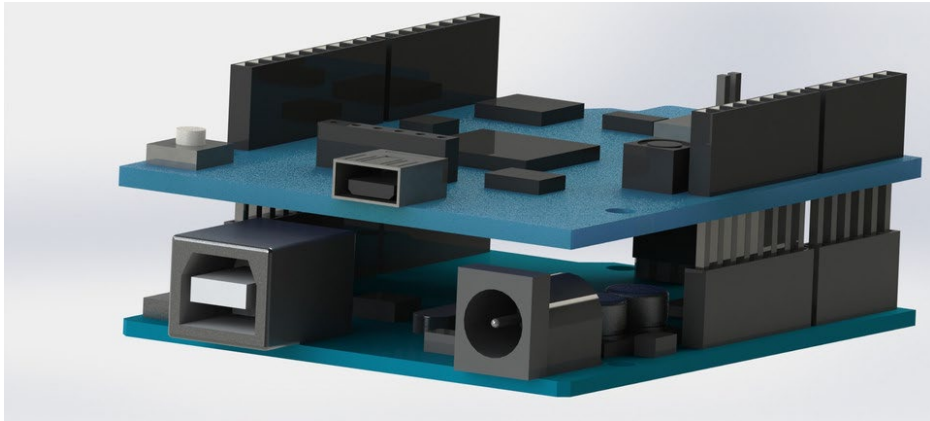
ARDUINO



POLITÉCNICA



Universidad Politécnica de Madrid



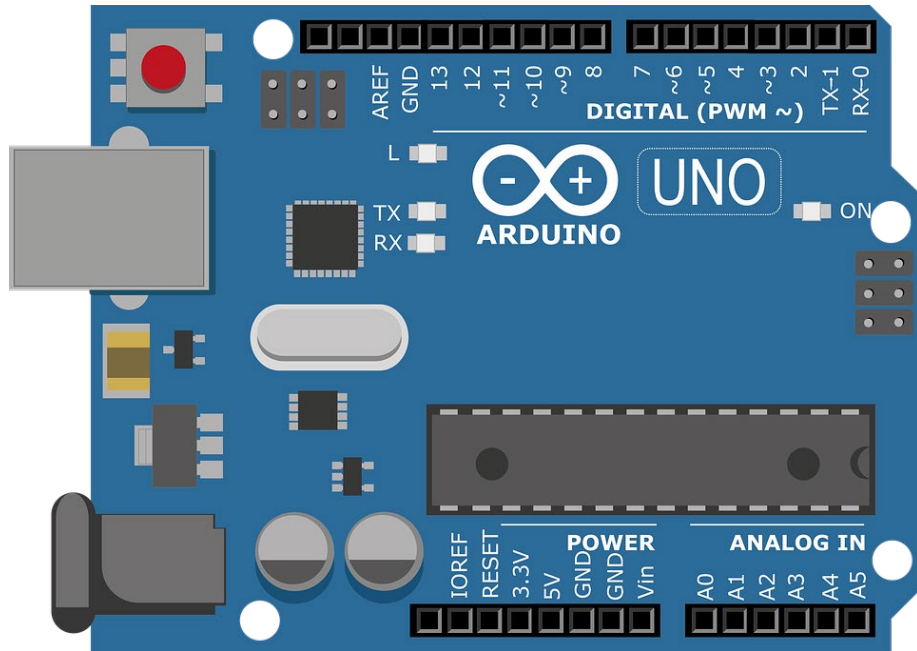
ARDUINO



POLITÉCNICA

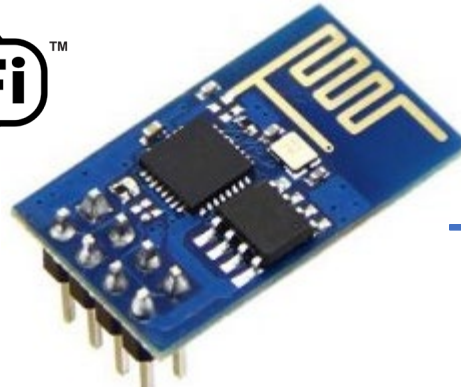
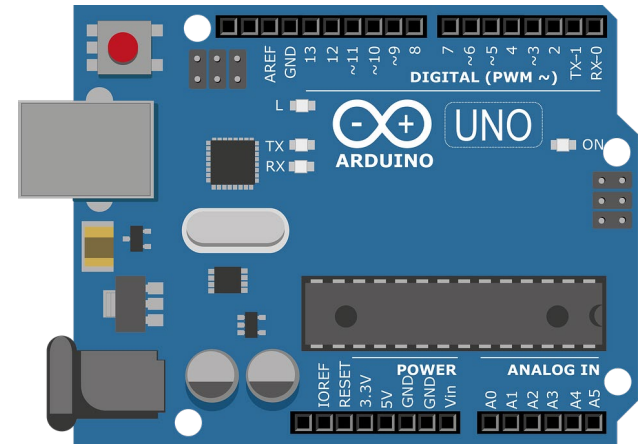


Universidad Politécnica de Madrid

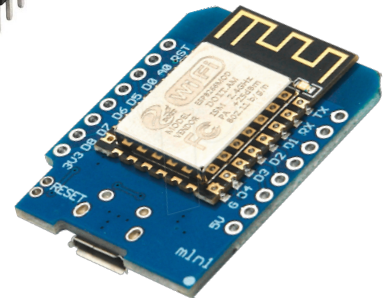
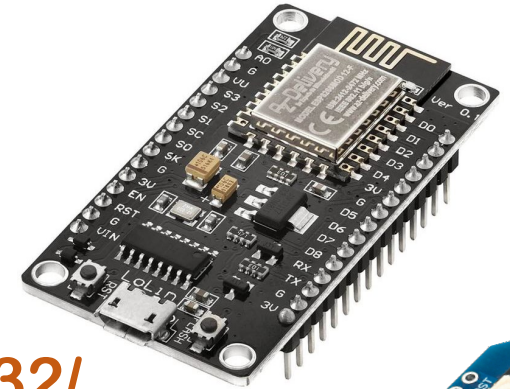


 JOYSTICK	 FLAME	 RGB LED	 HEARTBEAT	 2PCS LIGHT CUP	 HALL MAGNETIC
 RELAY	 LINEAR HALL	 SMD RGB	 7 COLOR FLASH	 TILT SWITCH	 18B20 TEMP
 BIG SOUND	 TOUCH	 TWO-COLOR	 LASER EMIT	 BALL SWITCH	 ANALOG TEMP
 SMALL SOUND	 DIGITAL TEMPERATURE	 MINI TWO-COLOR	 BUTTON	 PHOTOR-ESISTOR	 IR EMISSION
 TRACKING	 BUZZER	 REED SWITCH	 SHOCK	 TEMP AND HUMIDITY	 IR RECEIVER
 AVOIDANCE	 PASSIVE BUZZER	 MINI SWITCH	 ROTARY ENCODERS	 ANALOG HALL	 TAP MODULE LIGHT BLOCKING

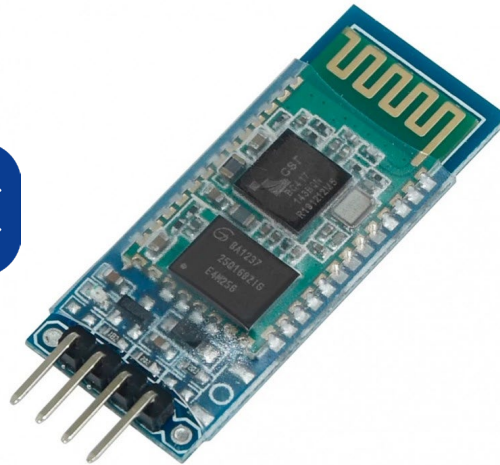
ARDUINO



ESP32/
ESP8266



Wemos D1 mini



ARDUINO

