8 Bit

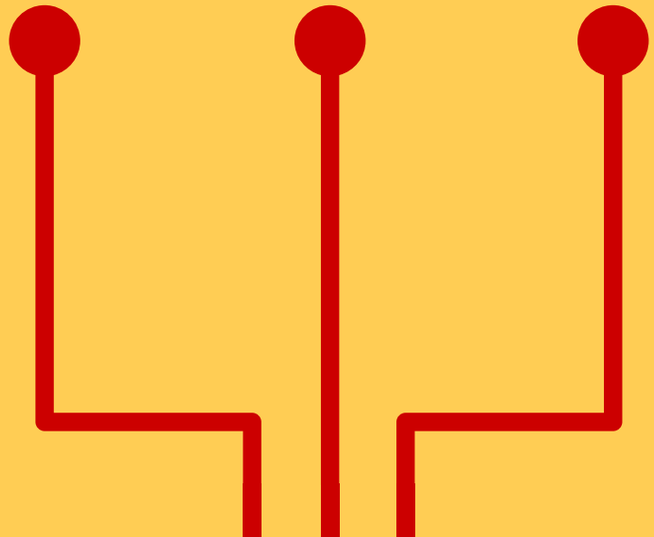
sensors, motors,
low res displays ,relays
8051, Arduino UNO

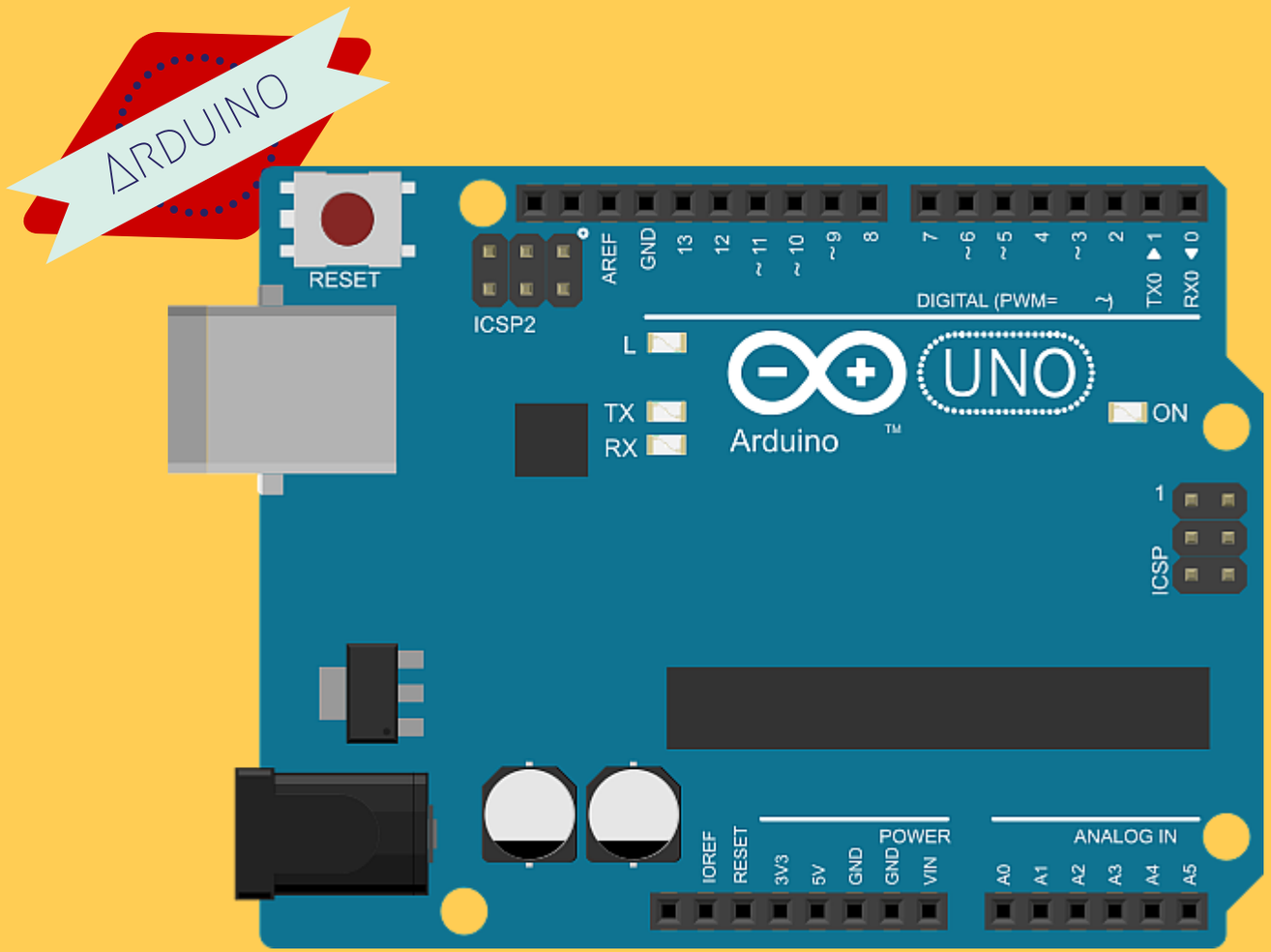
16 Bit

audio, networking,
printers, graphic display
PIC24, AVR-XMEGA

32 Bit

GPIOs, Graphics, routers,
RTOS, Multitasking
PIC32MZ, LPC21XX

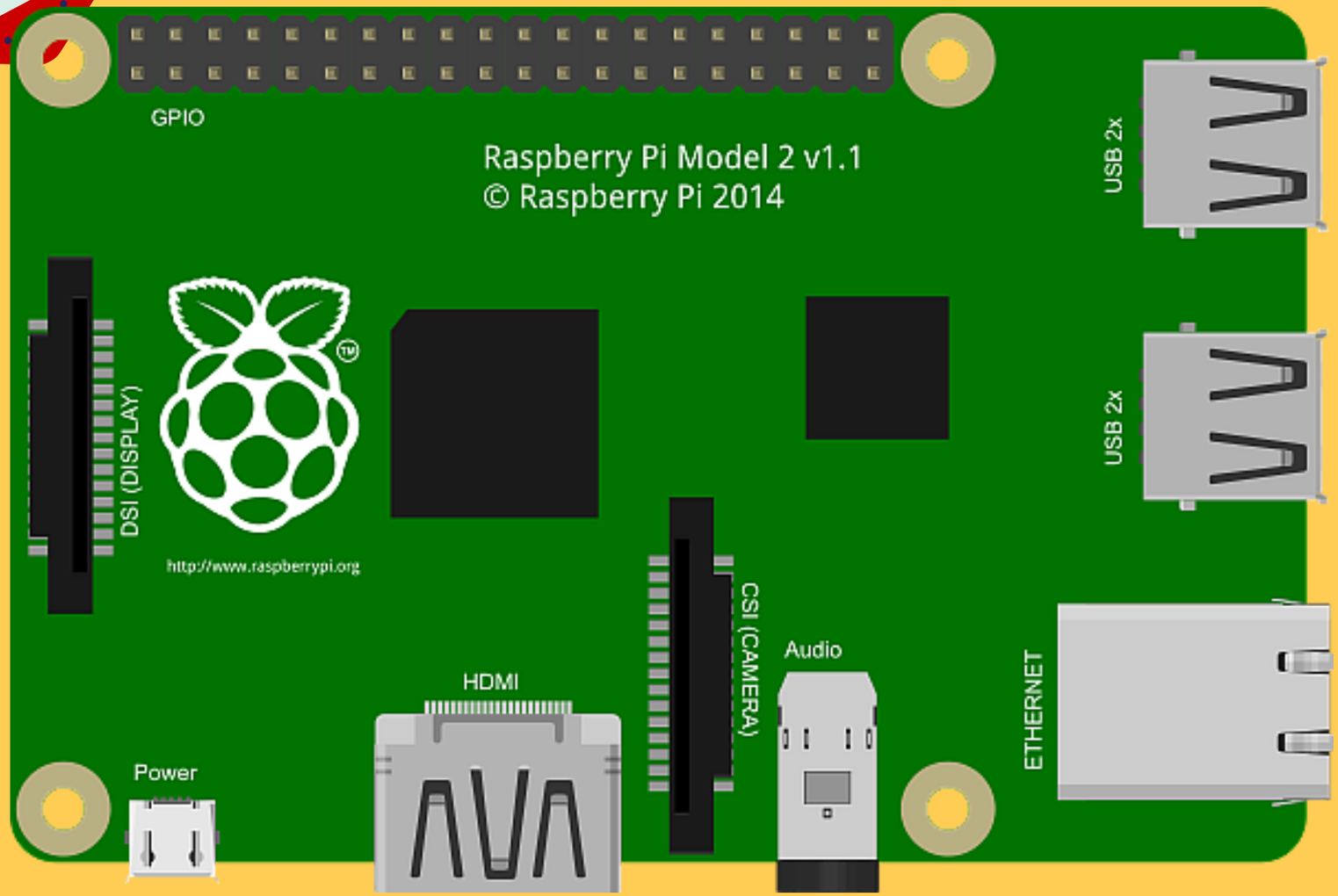



ARDUINO
RESET
ICSP2
AREF
GND
13
12
~ 11
~ 10
~ 9
8
7
~ 6
~ 5
4
~ 3
2
TX0 ▲ 1
RX0 ▼ 0
DIGITAL (PWM= ~)
L
TX
RX
UNO
Arduino
ON
1
ICSP
POWER
ANALOG IN
IOREF
RESET
3V3
5V
GND
GND
VIN
A0
A1
A2
A3
A4
A5

What is SoC / SBC? Are they 32 bit micrcontrollers?

System on Chip
= microcontroller - (RAM and ROM)

SOC / SBC


GPIO
Raspberry Pi Model 2 v1.1
© Raspberry Pi 2014
USB 2x
USB 2x
DSI (DISPLAY)
http://www.raspberrypi.org
CSI (CAMERA)
Audio
HDMI
ETHERNET
Power