



A mini computer with ROM, RAM and programmable peripherals

Why we need them?











3GHz & Cores

32 Bit / 64 Bit



4MHz to ~200MHz

8 Bit mostly

16 Bit

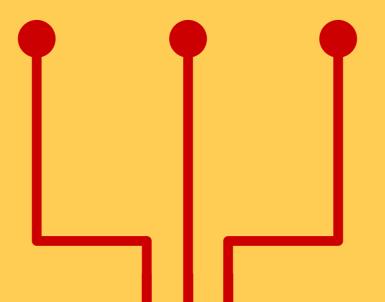
audio, networking, printers, graphic display PIC24, AVR-XMEGA

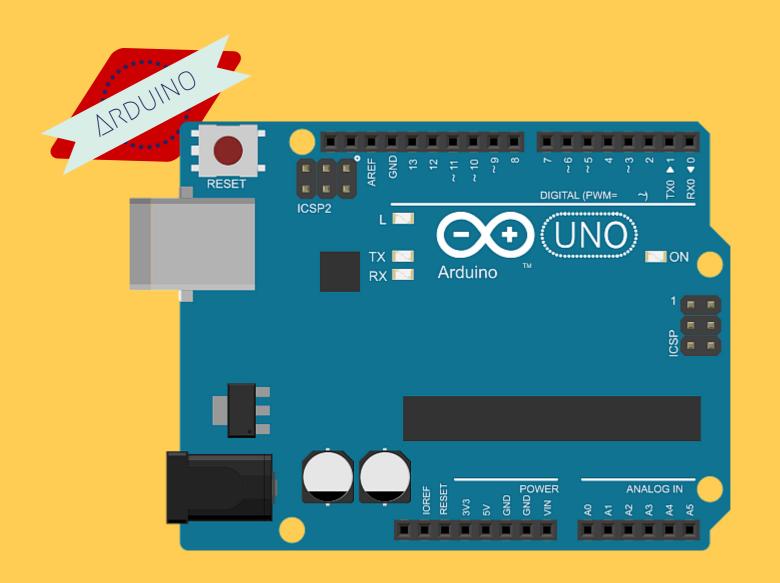
32 Bit

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

8 Bit

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





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

System on Chip = microcontroller - (RAM and ROM)

