



Microcontrollers

ARDUINO AND TEENSY

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Microcontrollers:

A microcontroller is a specific type of CPU, which runs a set of instruction multiple times, apart from CPU it has also got ram and rom, i/o pins, ADC and DAC integrated into it.

It is used to do small repetitive tasks. A set of instructions are programmed.

Difference	Arduino (UNO R3)	Teensy (3.5)
CPU	Atmega 328 (16MHz) (32bit)	ARM Cortex 4 (120MHz) (8-bit)
CAN BUS port	0	1
I2C port	1 (a4/a5)	3
SPI port	2	3
Real Time Clock	No	Yes
Flash	32kb	512kb + sd card slot
RAM	2kb	192kb
EEPROM	1kb	4kb
Input voltage	7-12V	3.2V
Pwm pins	6 (8bit)	22 (16bit)
Total digital pins	14	21
Serial ports	2	6
dimensions	6.3*1.8*0.5	8*5.5*2.5 cm ³
Ethernet	100mbps capable	No port