

Device List

1. MacBook Pro “Core i7”
2. Arduino Uno
3. Raspberry Pi 3B+

Specification for MacBook Pro “Core i7”

Processors:	1 (4 Cores)	Architecture:	64-Bit
Processor Speed:	2.9 GHz	Processor Type:	Core i7 (I7-6920HQ)
Details:	This model is powered by a 14 nm, 64-bit "Sixth Generation" Intel Mobile 2.9 GHz Core i7 "Skylake" (I7-6920HQ) processor which includes four independent processor "cores" on a single silicon chip. Each core has a dedicated 256k level 2 cache, shares 8 MB of level 3 cache, and has an integrated memory controller (dual channel).		
System Bus Speed:	8 GT/s (DMI3)*	Cache Bus Speed:	2.9 GHz (Built-in)
ROM/Firmware Type:	EFI	EFI Architecture:	64-Bit
L1 Cache:	32k/32k x4	L2/L3 Cache:	256k x4, 8 MB*
RAM Type:	LPDDR3 SDRAM*	Min. RAM Speed:	2133 MHz
Details:	Ships standard with 16 GB of 2133 MHz LPDDR3 SDRAM onboard.		
Standard RAM:	16 GB	Maximum RAM:	16 GB
Motherboard RAM:	16 GB	RAM Slots:	None
Video Card:	Radeon Pro 450/455*	VRAM Type:	GDDR5
Standard VRAM:	2 GB*	Maximum VRAM:	4 GB**
Built-in Display:	15.4" Widescreen	Native Resolution:	2880x1800
Battery Type:	76.0 W h Li-Poly	Battery Life:	10 Hours
Pre-Installed MacOS:	X 10.12.1 (16B2659)	Maximum MacOS:	Current
Minimum Windows:	10 (64-Bit)*	Maximum Windows:	10 (64-Bit)*
MacOS 9 Support:	None	Windows Support:	Boot/Virtualization
Dimensions:	0.61 x 13.75 x 9.48	Avg. Weight:	4.02 lbs (1.83 kg)

Arduino Uno Technical Specifications

Microcontroller	<u>ATmega328P</u> – 8 bit AVR family microcontroller
Operating Voltage	5V
Recommended Input Voltage	7-12V
Input Voltage Limits	6-20V
Analog Input Pins	6 (A0 – A5)
Digital I/O Pins	14 (Out of which 6 provide PWM output)
DC Current on I/O Pins	40 mA
DC Current on 3.3V Pin	50 mA
Flash Memory	32 KB (0.5 KB is used for Bootloader)
SRAM	2 KB
EEPROM	1 KB
Frequency (Clock Speed)	16 MHz

Raspberry Pi 3B+ specifications

- SoC: Broadcom BCM2837B0 quad-core A53 (ARMv8) 64-bit @ 1.4GHz
- GPU: Broadcom Videocore-IV
- RAM: 1GB LPDDR2 SDRAM
- Networking: Gigabit Ethernet (via USB channel), 2.4GHz and 5GHz 802.11b/g/n/ac Wi-Fi
- Bluetooth: Bluetooth 4.2, Bluetooth Low Energy (BLE)
- Storage: Micro-SD
- GPIO: 40-pin GPIO header, populated
- Ports: HDMI, 3.5mm analogue audio-video jack, 4x USB 2.0, Ethernet, Camera Serial Interface (CSI), Display Serial Interface (DSI)
- Dimensions: 82mm x 56mm x 19.5mm, 50g