

Specs	Arduino Uno	Raspberry Pi 3 Model B	Inference
Processor	ATmega328 - 8 bit AVR RISC based Microcontroller 16MHz Quartz Crystal.	Broadcom BCM2387 chipset. 1.2GHz Quad-Core ARM Cortex-A53.	Raspberry Pi is more powerful in terms of processing speed. 40 times faster
Analog Input	Has 6 analog input pins and an ADC too. Hence, can take analog input	No analog input pins. Analog input cannot be read.External ADC(like MCP3008) need to be employed.	Important Difference b/w arduino and pi. Since, all inputs from our physical environment are analog, pi can't directly read them. An external circuitry is needed
Storage and Memory	Flash Memory: 32 KB of which 0.5 KB used by bootloader. SRAM: 2 KB EEPROM: 1 KB	1 GB LPDDR2 RAM at 900 MHz. SD card support for Storage and OS.	Arduino has very less storage as compared to pi. But It's storage(32KB) is sufficient for the work that arduino do.
Networking	No in-built modules, external hardware are needed and special libraries have to be employed.	802.11 b/g/n Wireless, LAN, and Bluetooth 4.1	Very difficult to do networking in Arduino and not with very good user-interface. Pi gives more easy and fast internet connection with good user-interface
Power	Operating Voltage: 5V. DC Current per I/O Pin: 40 mA	Micro USB socket 5V1, 2.5A	Arduino requires lesser power than Pi, Making it usable in battery based application. Pi can't be run much longer on a battery.
GPU	No Such Dedicated Hardware for processing	Dual Core VideoCore IV® Multimedia Co-Processor. Provides Open GL ES 2.0, hardware-accelerated OpenVG, and 1080p30 H.264 high-profile decode.	This make Pi useful for places like video and image processing, or playing games and movies. Arduino can not be used in such application
Remote Accessing	Can't be accessed remotely without special hardware	Pi can be accessed remotely through SSH	This allows pi to be used in application where we have to give manual command remotely, like editing scripts.
Programming Languages	C/C++ alike, Arduino language	Python, C/C++, Java, Rub, etc. Since it is a computer, install a linux/(Windows10) and can programme in anything even in awk or bash	Pi gives more freedom in programming than arduino. We can programme in many languages in pi at once.
Connectors for Output	14 Digital Pins(of which 6 PWM pins)	HDMI, Composite RCA, 3.5mm jack, HDMI USB 4 x USB 2.0, 40 pins,15-pin MIPI Camera Serial Interface (CSI-2), Display Serial Interface (DSI), Push/pull Micro SDIO	Clearly Pi is more powerful than arduino in this. These ports enable pi to integrate many different types of hardware like mouse, keyboard, camera, monitor, speakers.
Robustness	Simple, plug and play device.	A complex device. Requires proper boot-up and shutdown.	Arduino can be turned ON/OFF at any point of time. Pi has to be handled carefully as OS may get corrupt,or damage