

Microcontroller Board Details:

MCU Manufacturer	Microchip Technology
MCU	ATMega328PB
Operating Voltage	5V
Clock Rate	16 Mhz
Computing Speed	16 MIPS
Flash Memory	32 KBytes
SRAM	2 KBytes
EEPROM	1 KBytes
Digital I/O Pins	20
Analog Input Pins	8
PWM Output Pins	9
Has DAC	No
UART Interface	2
SPI Interface	2
I2C Interface	1
USB to Serial	Upto 115200 baud rate

MCU Power Ratings:

Absolute Max. Current per I/O pin	40 mA
Recommended Max. Current per I/O pin	20 mA
Absolute Max. Total MCU Current	100 mA
Recommended Max. Total MCU Current	60 mA
Max. VCC Voltage	6V
I/O Pin Voltage	-0.5V to VCC+0.5V

Power Supply Ratings:

Power Input	microUSB or DC Jack*
Recommended Power Input	microUSB
Dual Power Preference	DC Jack
Min. Running Current	22 mA (via DC Jack)
Absolute Max DC Jack Voltage	18V
Recommended DC Adapter	7-9V SMPS DC Adapter*
5V Max Current on 12V DC Jack	120mA (stable at 80°C)
5V Max Current on 9V DC Jack	210mA (stable at 80°C)

* Not Recommended for NOOBS, refer to guideline

* Avoid Transformer DC Adapter as Output Voltage Fluctuates