



CURSO

ELECTRONICA - ROBOTICA – ARDUINO

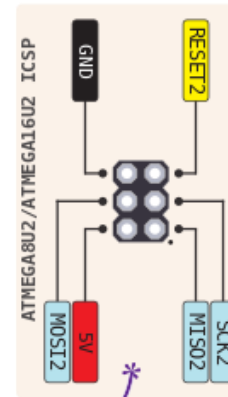
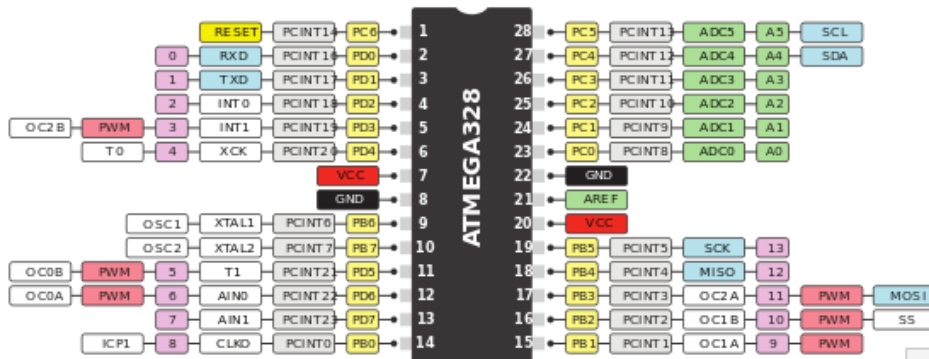


Ing. Brain Naser Soto

THE DEFINITIVE ARDUINO UNO PINOUT DIAGRAM

⚠ **Absolute max per pin 40mA**
recommended 20mA

⚡ **Absolute max 200mA**
for entire package

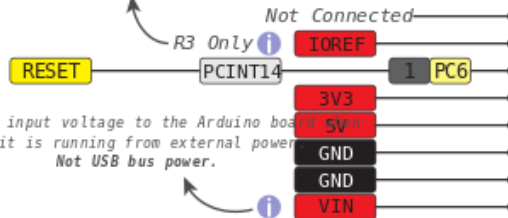


7-12V Depending on current drawn

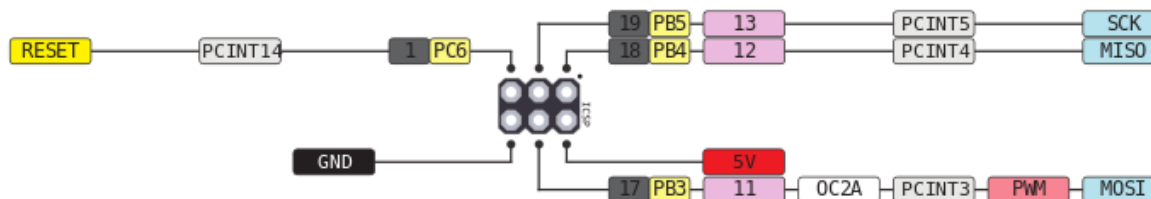


Cut to disable the auto-reset

This provides a logic reference voltage for shields that use it. It is connected to the 5V bus.



The input voltage to the Arduino board is running from external power. Not USB bus power.



RESET Button

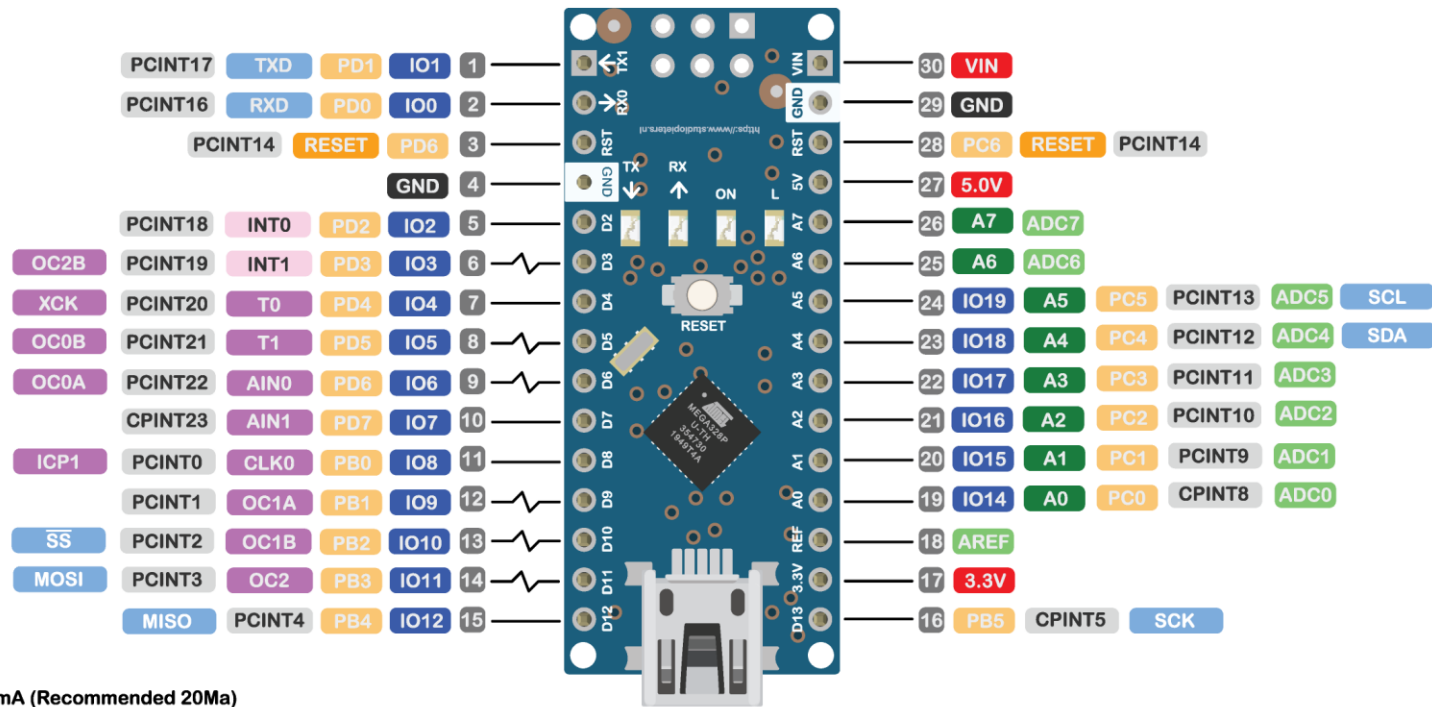
R3 Only

Connected to the ATmega and used for USB program and communicating with it

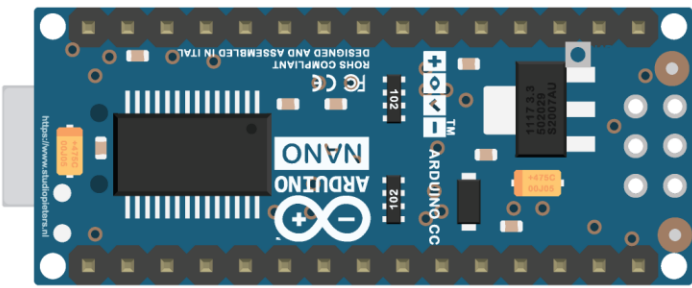


ARDUINO NANO

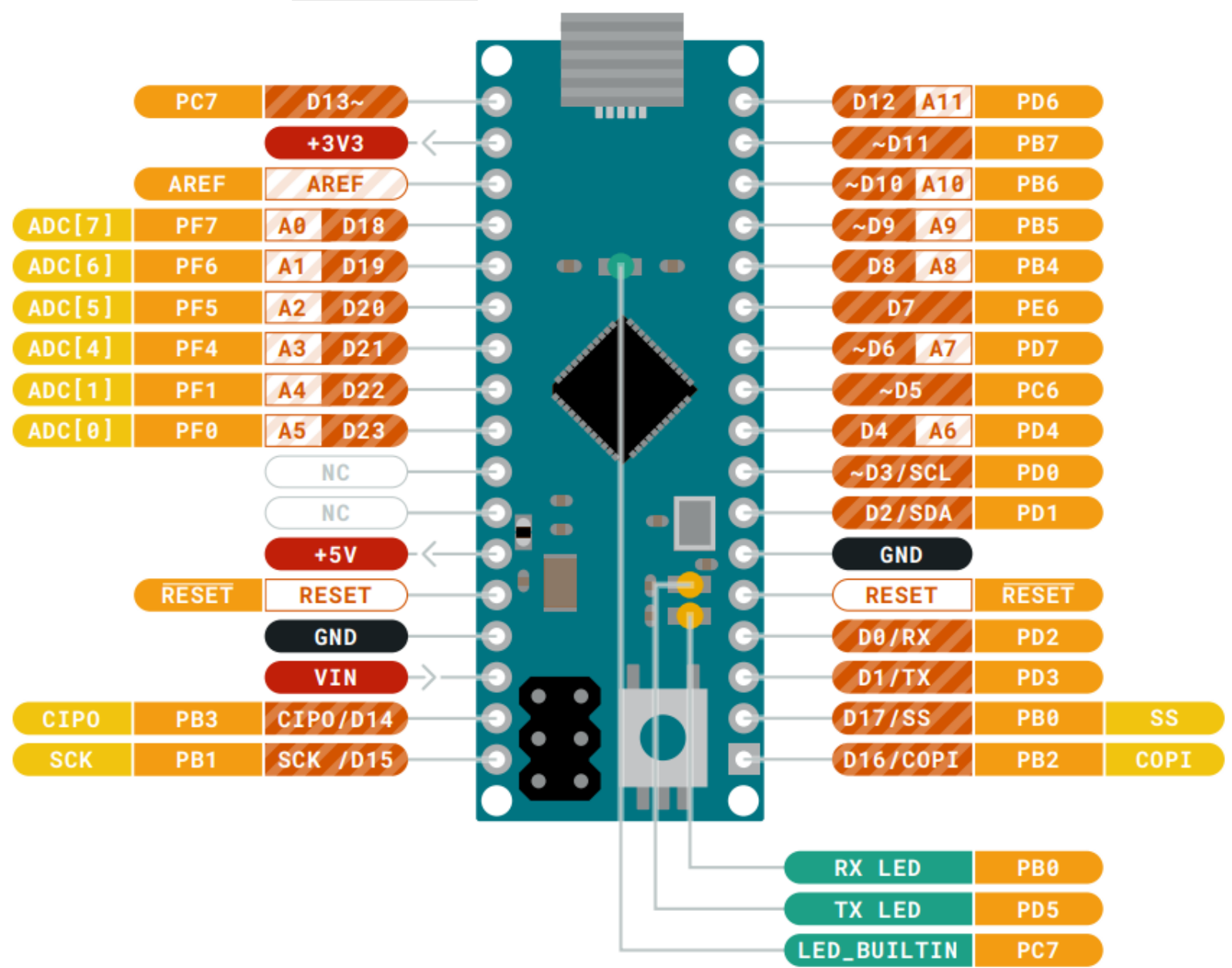
- Physical Pin
- Power Pin
- GND Pin
- Digital Pin
- Analog Pin
- Port Pin
- Control Pin
- Serial Pin
- Interrupt Pin
- Function Pin
- Interrupt Pin
- Analog Pin



⚠ Absolute MAX per pin 40mA (Recommended 20Ma)
⚠ Absolute MAX 200mA Total



ARDUINO MICRO PINOUT



ARDUINO MEGA PINOUT

POWER

GND

DIGITAL PIN

ANALOG PIN

COMMUNICATION

MICROCONTROLLER PIN

INTERNAL

DEFAULT

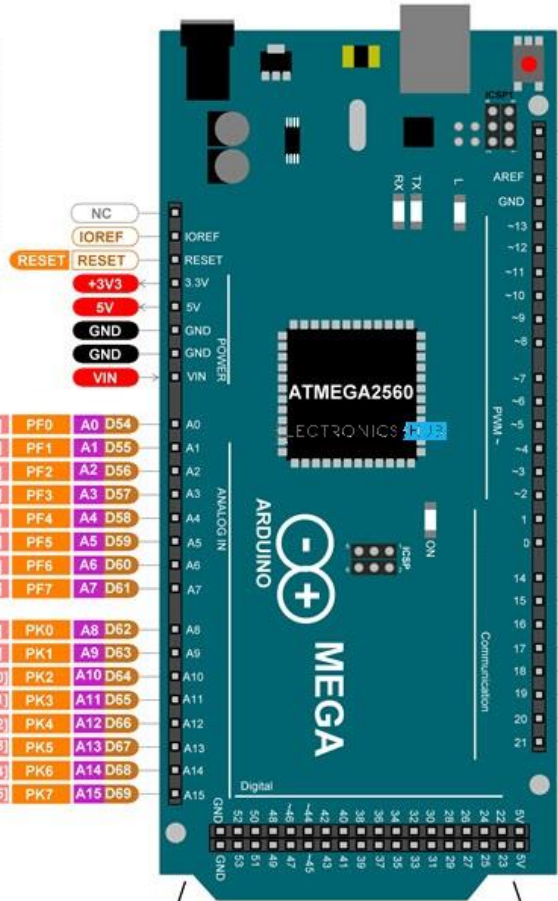
TIMER

ANALOG

INTERRUPT

OTHER

SWD



ICSP1

1	MISO	PB3
2	+5V	
3	SCK	PB1
4	MOSI	PB2
5	RESET	PC1
6	GND	

ADC[0]	ADC[0]	PF0	A0	D54	
ADC[1]	ADC[1]	PF1	A1	D55	
ADC[2]	ADC[2]	PF2	A2	D56	
ADC[3]	ADC[3]	PF3	A3	D57	
ADC[4]	ADC[4]	PF4	A4	D58	
ADC[5]	ADC[5]	PF5	A5	D59	
ADC[6]	ADC[6]	PF6	A6	D60	
ADC[7]	ADC[7]	PF7	A7	D61	
PCINT[16]	ADC[8]	ADC[8]	PK0	A8	D62
PCINT[17]	ADC[9]	ADC[9]	PK1	A9	D63
PCINT[18]	ADC[10]	ADC[10]	PK2	A10	D64
PCINT[19]	ADC[11]	ADC[11]	PK3	A11	D65
PCINT[20]	ADC[12]	ADC[12]	PK4	A12	D66
PCINT[21]	ADC[13]	ADC[13]	PK5	A13	D67
PCINT[22]	ADC[14]	ADC[14]	PK6	A14	D68
PCINT[23]	ADC[15]	ADC[15]	PK7	A15	D69

D21/SCL	PD0	SCL	SCL	INT[0]
D20/SDA	PD1	SDA	SDA	INT[1]
AREF	AREF			
GND				
-D13	PB7	OC0A/OC1C	PCINT[7]	
-D12	PB6	OC1B	PCINT[6]	
-D11	PB5	OC1A	PCINT[5]	
-D10	PB4	OC2A	PCINT[4]	
-D9	PH6	OC2B		
-D8	PH5	OC4C		
-D7	PH4	OC4B		
-D6	PH3	OC4A		
-D5	PE3	OC3A		
-D4	PG5	OC0B		
-D3	PE5	OC3C	INT[5]	
-D2	PE4	OC3B	INT[4]	
D1/TX0	PE1	TXD0		
D0/RX0	PE0	RXD0	PCINT[8]	
D14/TX3	PJ1	TXD3	PCINT[10]	
D15/RX3	PJ0	RXD3	PCINT[9]	
D16/TX2	PH1	TXD2		
D17/RX2	PH0	RXD2		
D18/TX1	PD3	TXD1	INT[3]	
D19/RX1	PD2	RXD1	INT[2]	
D20/SDA	PD1	SDA	INT[1]	
D21/SCL	PD0	SCL	INT[0]	

RESET 5

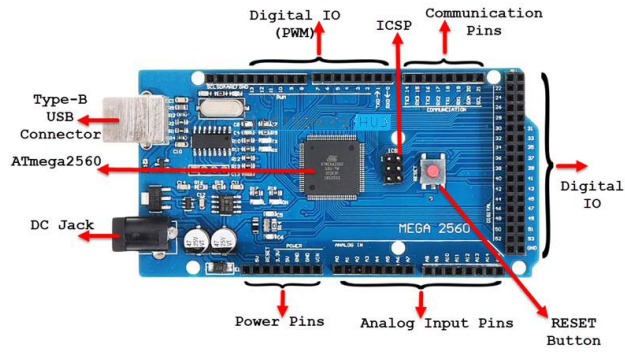
3 SCK PB1 SCK PCINT[1]

1 MISO PB3 MISO PCINT[3]

2 5V

4 MOSI PB3 MOSI PCINT[2]

GND 6



AD0	PA0	D22	D23	PA1	AD1
AD2	PA2	D24	D25	PA3	AD3
AD4	PA4	D26	D27	PA5	AD5
AD6	PA6	D28	D29	PA7	AD7
A15	PC7	D30	D31	PC6	A14
A13	PC5	D32	D33	PC4	A12
A11	PC3	D34	D35	PC2	A10
A9	PC1	D36	D37	PC0	A8
PD7	D38	D39	PG2	BLE	
RD	PG1	D40	D41	PG0	WR
PL7	D42	D43	PL6		
PL5	-D44	-D45	PL4		
PL3	-D46	D47	PL2		
PL1	D48	D49	PL0		
MISO	PB3	D50	D51	PB2	MOSI
SCK	PB1	D52	D53	PB0	SS
GND		GND	GND		GND

ARDUINO MEGA

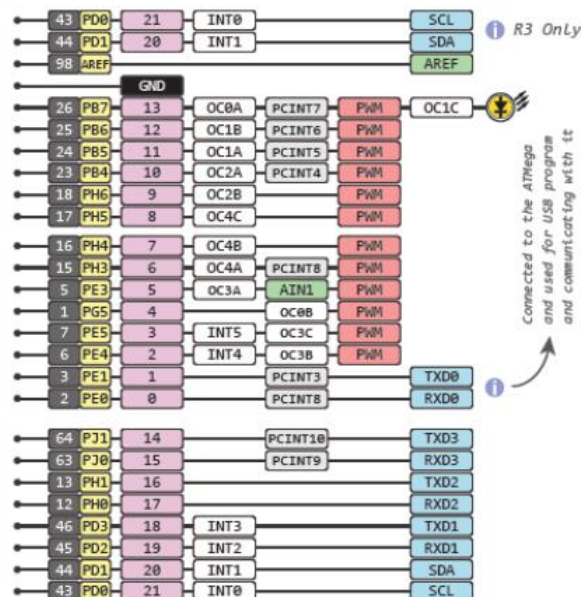
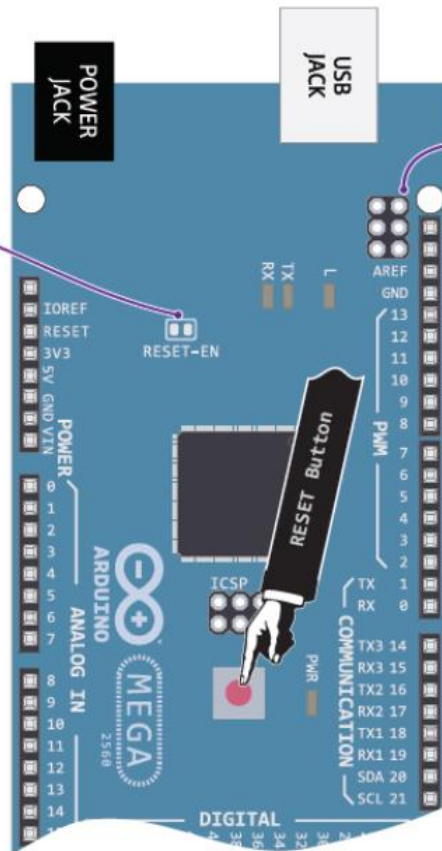
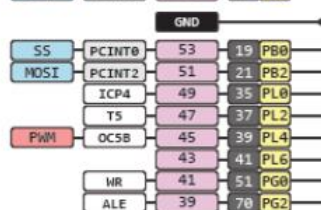
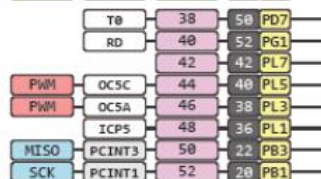
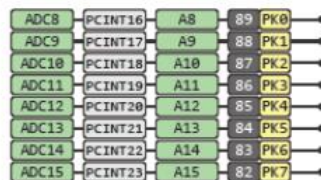
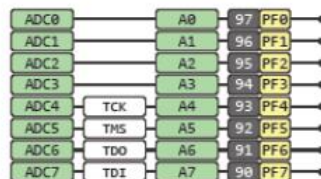
PINOUT DIAGRAM

Cut to disable the auto-reset

This provides a logic reference voltage for shields that use it. It is connected to the 5V bus.

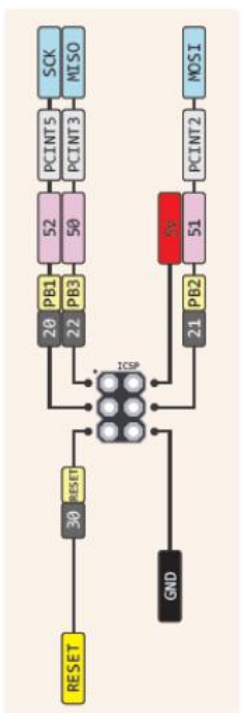
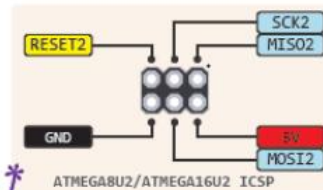
Not Connected
R3 Only

The input voltage to the Arduino board when it is running from external power.
Not USB bus power.



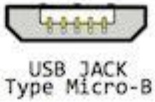
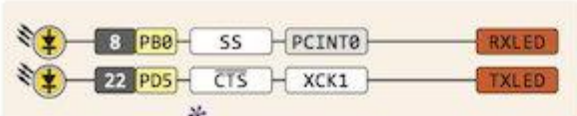
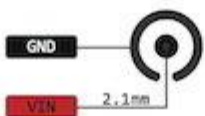
⚠ Absolute max per pin 40mA
recommended 20mA

⚠ Absolute max 200mA
for entire package



THE DEFINITIVE ARDUINO LEONARDO PINOUT DIAGRAM

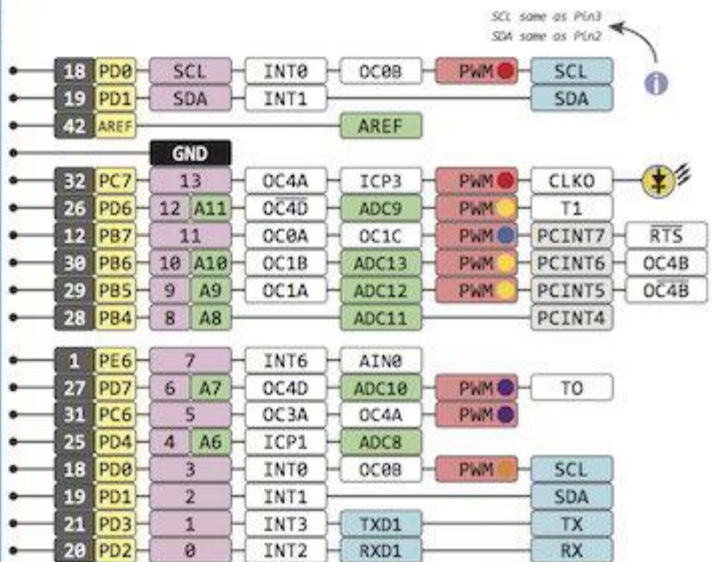
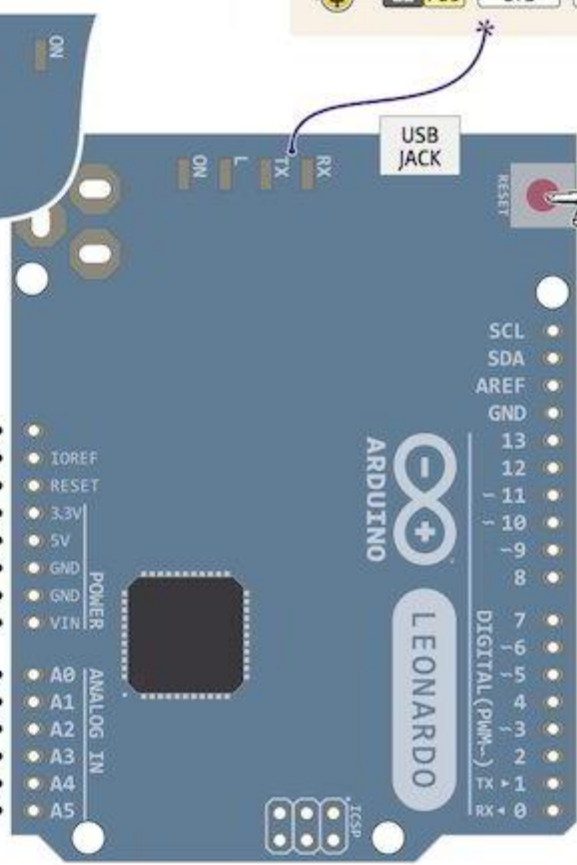
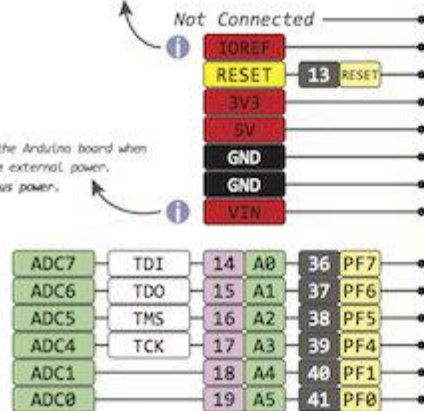
7-12V Depending on current drawn



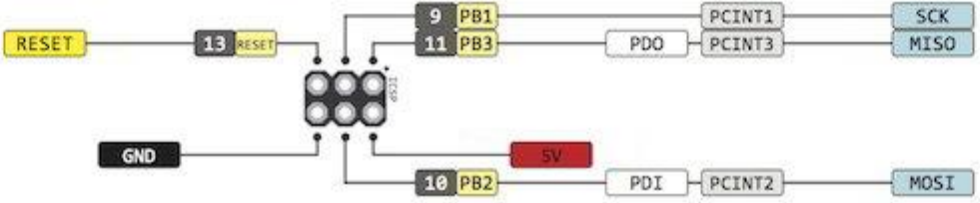
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⚡ Absolute max 200mA for entire package

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The input voltage to the Arduino board when it is running from external power. Not USB bus power.



PWM type
 PWM 10bit
 PWM 8/16bit
 PWM 16bit
 PWM HS
 PWM 8bit



Legend:
 GND
 Power
 Control
 Physical Pin
 Port Pin
 Pin Function
 Digital Pin
 Analog Related Pin
 PWM Pin
 Serial Pin
 IDE



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ver 2 rev 0 - 08.03.2013

