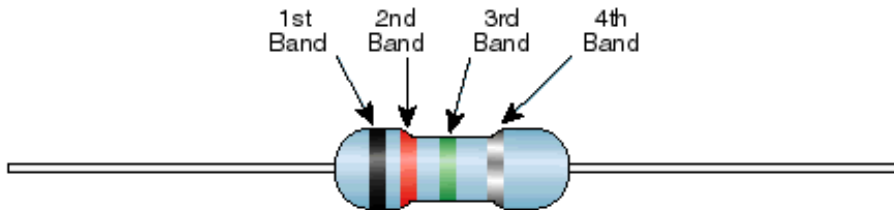


Resistor Color Codes

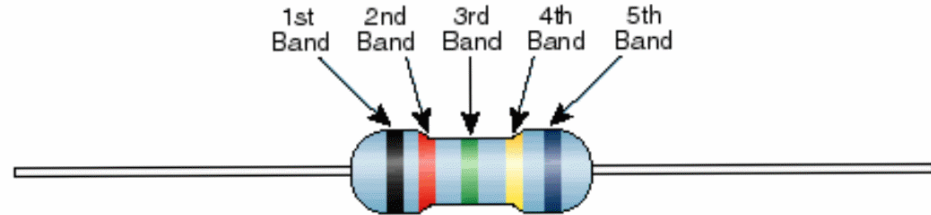
Standard EIA Color Code Table 4 Band: $\pm 2\%$, $\pm 5\%$, and $\pm 10\%$



Color	1st Band (1st figure)	2nd Band (2nd figure)	3rd Band (multiplier)	4th Band (tolerance)
Black	0	0	10^0	
Brown	1	1	10^1	
Red	2	2	10^2	$\pm 2\%$
Orange	3	3	10^3	
Yellow	4	4	10^4	
Green	5	5	10^5	
Blue	6	6	10^6	
Violet	7	7	10^7	
Gray	8	8	10^8	
White	9	9	10^9	
Gold			10^{-1}	$\pm 5\%$
Silver			10^{-2}	$\pm 10\%$

Chart Provided By XICON

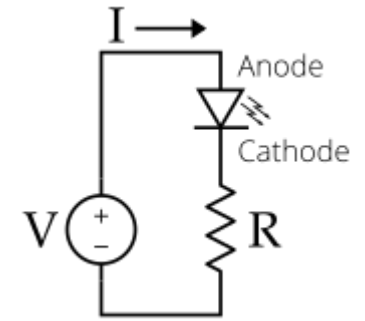
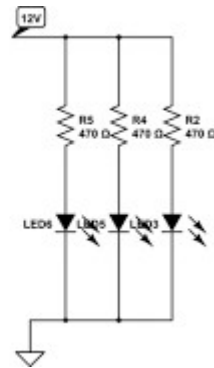
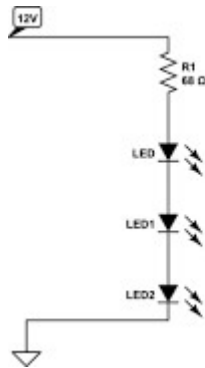
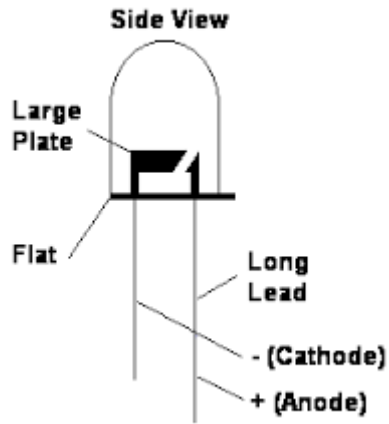
Standard EIA Color Code Table 5 Band: $\pm 1\%$, $\pm 25\%$, $\pm 5\%$, $\pm 1\%$



Color	1st Band (1st figure)	2nd Band (2nd figure)	3rd Band (3rd figure)	4th Band (multiplier)	5th Band (tolerance)
Black	0	0	0	10^0	
Brown	1	1	1	10^1	$\pm 1\%$
Red	2	2	2	10^2	
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	$\pm 5\%$
Blue	6	6	6	10^6	$\pm 25\%$
Violet	7	7	7	10^7	$\pm 1\%$
Gray	8	8	8	10^8	
White	9	9	9	10^9	
Gold				10^{-1}	

Chart Provided By XICON

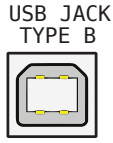
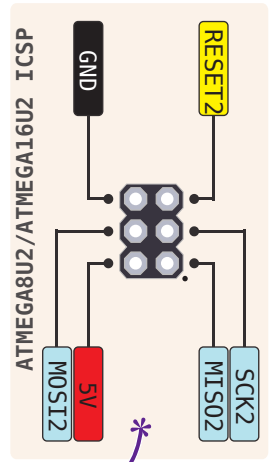
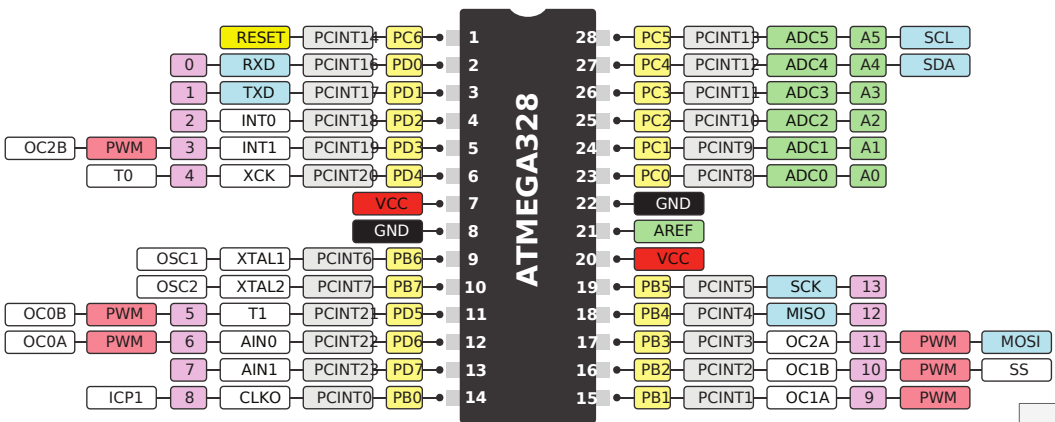
LED Information



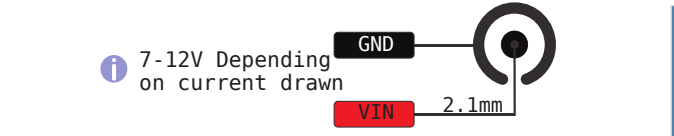
3mm LEDs

Optical and Electronic Characteristics									Max Continuous	Preferred Value Series		
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	IF Max (mA)	5VDC	9VDC	12VDC	
3	45	Red	Diffused	650	15	2.3	40	15	180	470	680	
3	15		Waterclear	660	20	1.8	1500	30	160	360	510	
3	20		Waterclear	625	20	2.0	2100	50	150	360	510	
3	15		Waterclear	625	20	2.1	7000	30	150	360	510	
3	45	Orange	Diffused	625	20	1.9	35	30	160	360	510	
3	50	Yellow	Diffused	585	20	2.1	10	20	150	360	510	
3	20		Waterclear	588	20	2.0	3000	50	150	360	510	
3	15		Waterclear	588	20	2.2	6500	50	150	360	510	
3	50	Green	Diffused	573	20	2.3	40	20	130	330	470	
3	20		Waterclear	568	20	2.1	500	30	150	360	510	
3	20	Green	Waterclear	520	20	3.2	6000	20	91	300	470	
3	15	Aqua	Waterclear	505	20	3.5	4000	30	75	270	430	
3	15	Blue	Waterclear	465	20	3.3	1500	20	82	300	430	
3	15		Waterclear	470	20	3.2	3700	30	91	300	430	
3	15	White	Waterclear	0.31/0.32	20	3.2	1000	20	91	300	430	
3	20	White	Waterclear	0.31/0.32	20	3.2	5000	30	91	300	430	
3	15	White	Waterclear	0.31/0.32*	25	3.4	12000	25	62	220	360	

THE DEFINITIVE ARDUINO UNO PINOUT DIAGRAM

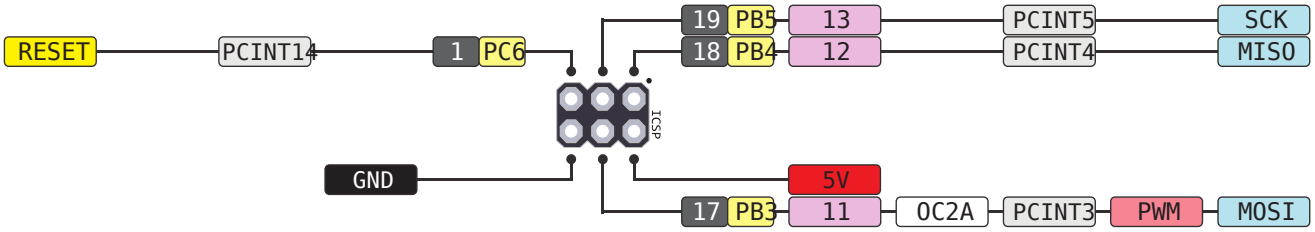
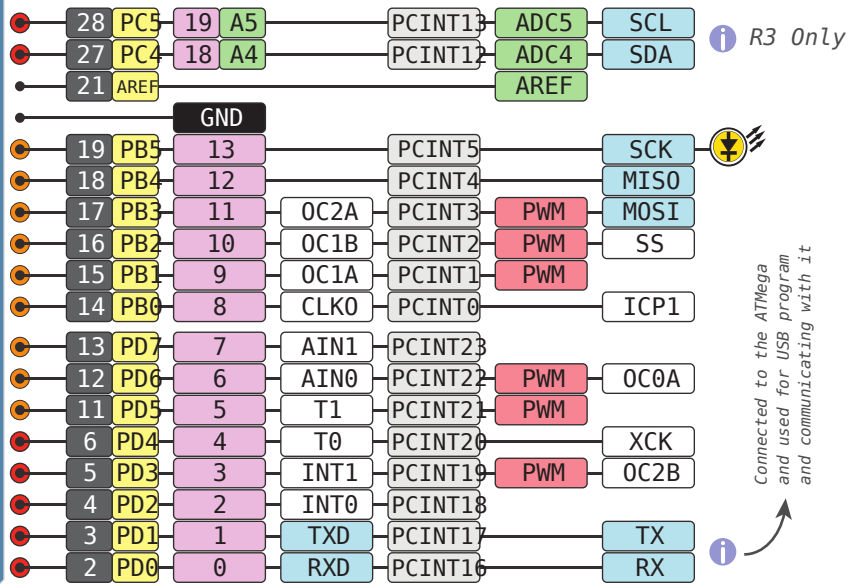
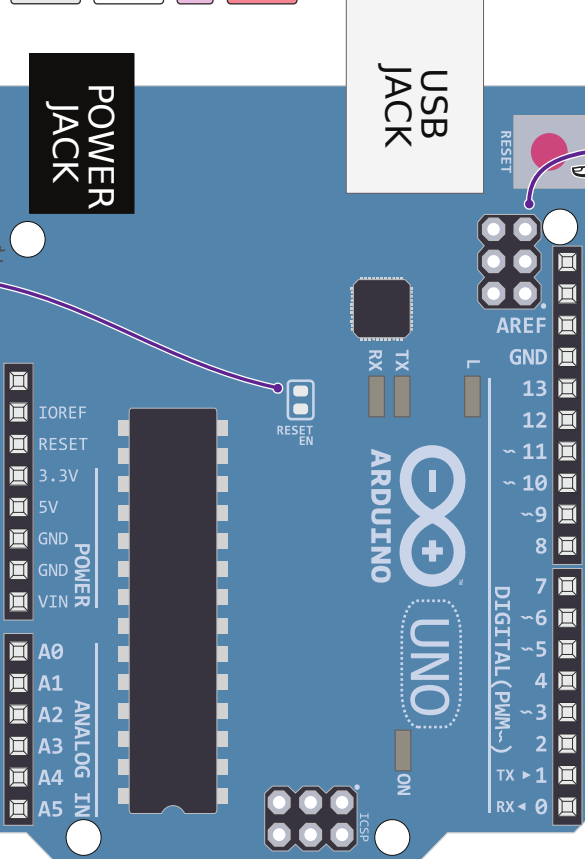
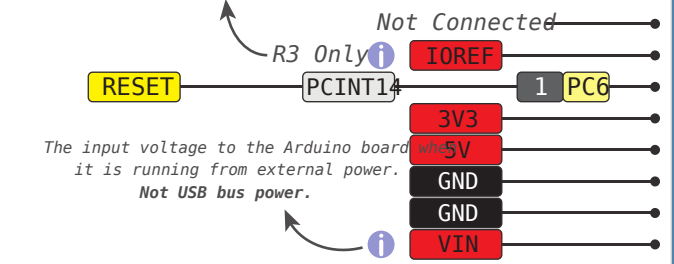


⚠ Absolute max per pin 40mA recommended 20mA
⏹ Absolute max 200mA for entire package



Cut to disable the auto-reset

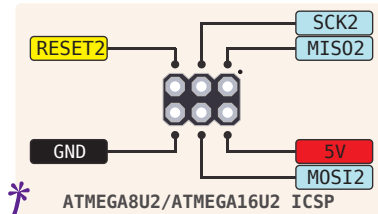
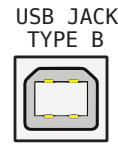
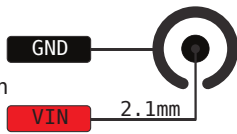
This provides a logic reference voltage for shields that use it. It is connected to the 5V bus.



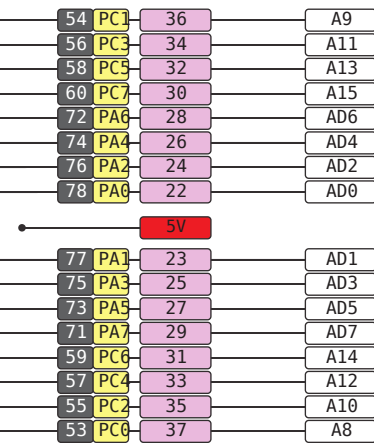
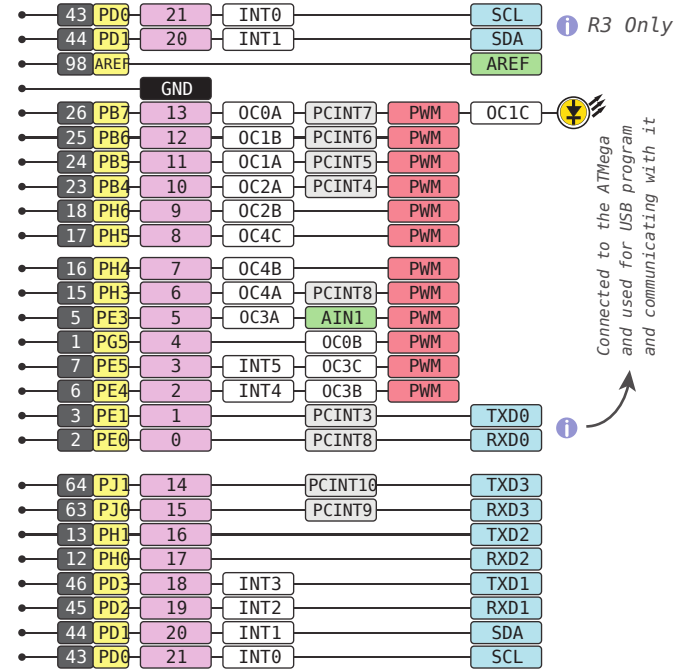
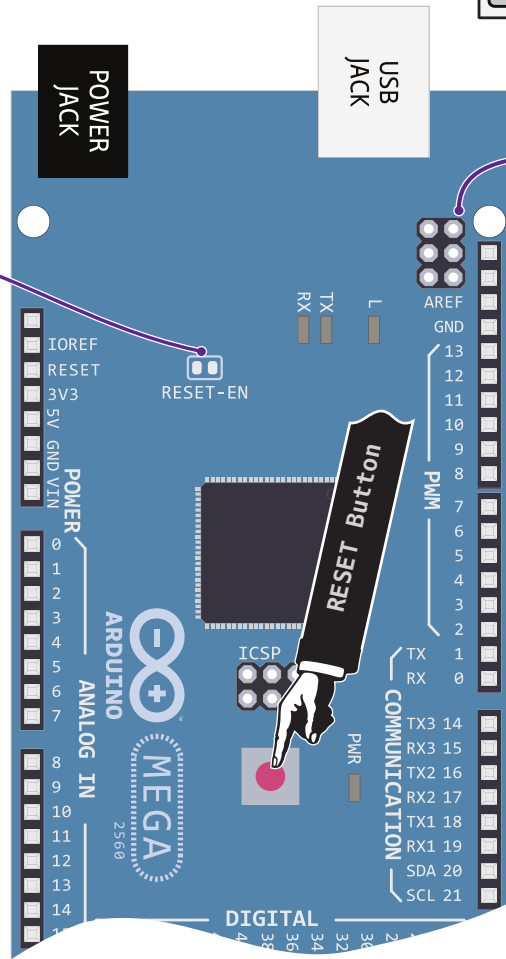
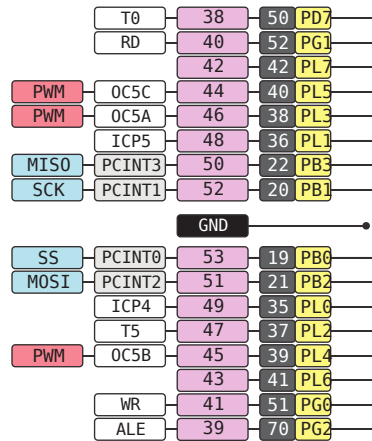
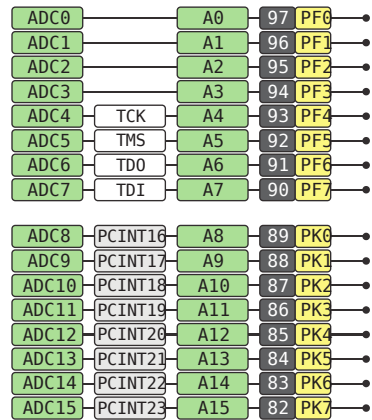
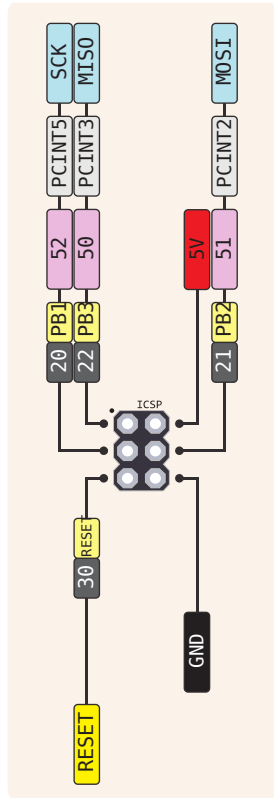
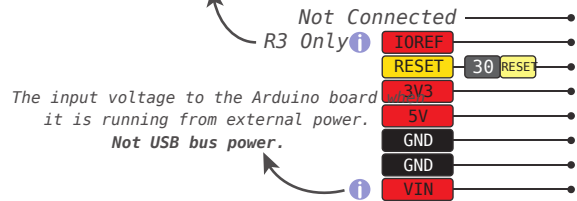
- GND
- Power
- Control
- Physical Pin
- Port Pin
- Pin Function
- Digital Pin
- Analog Related Pin
- PWM Pin
- Serial Pin
- IDE
- Source Total 150mA

THE DEFINITIVE ARDUINO MEGA PINOUT DIAGRAM

i 7-12V Depending on current drawn

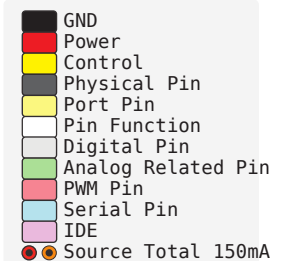


Cut to disable the auto-reset
 This provides a logic reference voltage for shields that use it. It is connected to the 5V bus.



⚠ Absolute max per pin 40mA
 recommended 20mA

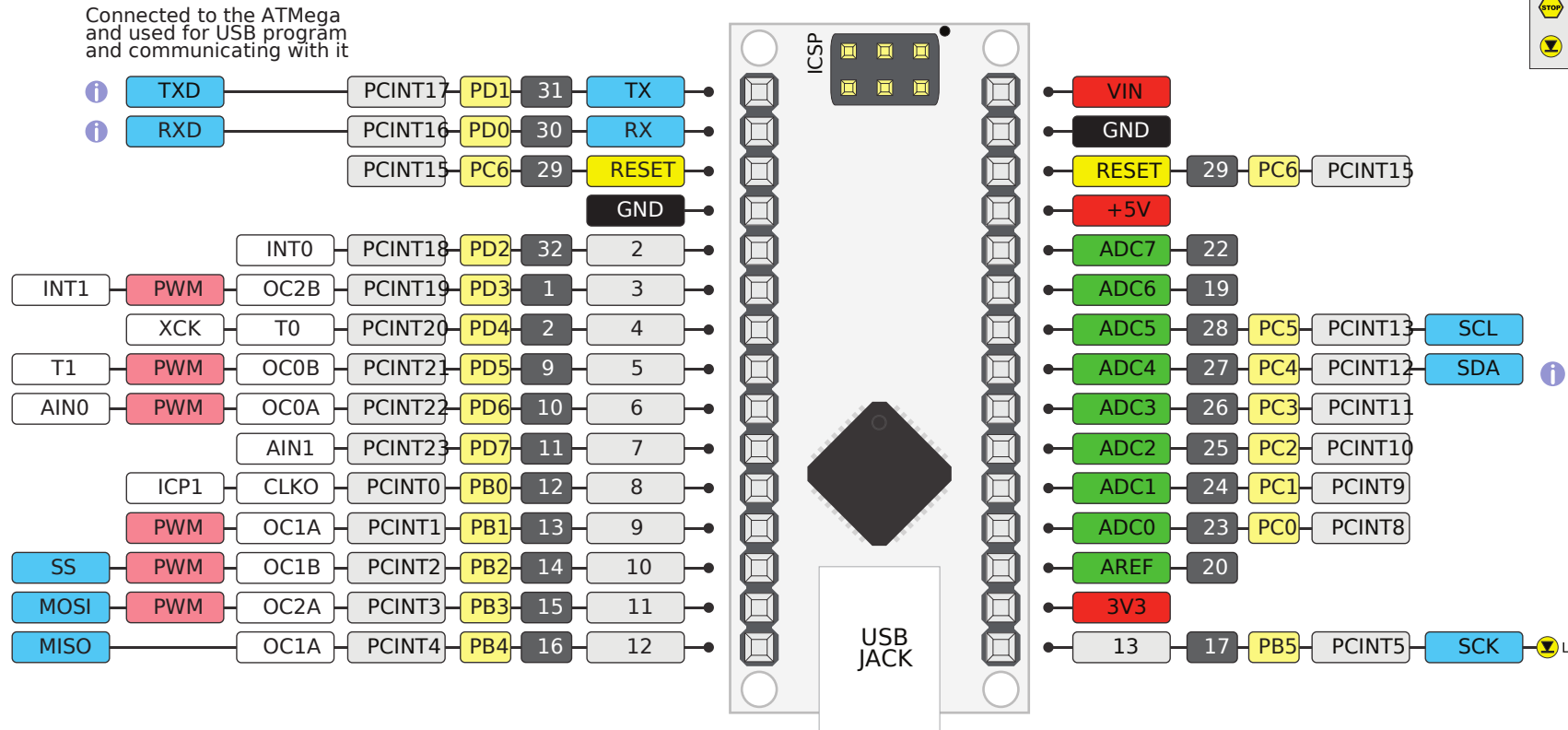
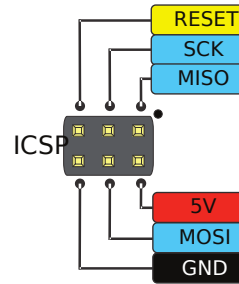
⏹ Absolute max 200mA
 for entire package



THE UNOFFICIAL
ARDUINO
NANO
 PINOUT DIAGRAM

⚠ Absolute max per pin 40mA
 recommended 20mA

⛔ Absolute max 200mA
 for entire package



LEGEND

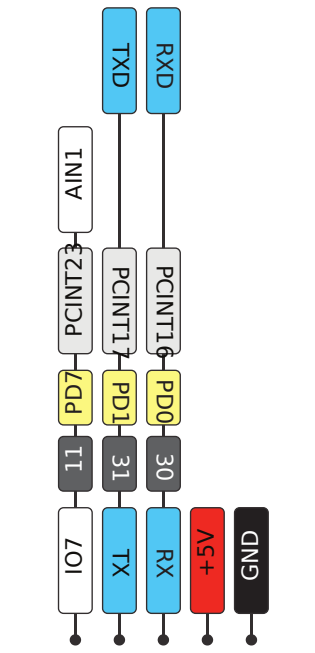
- GND
- POWER
- CONTROL
- PHYSICAL PIN
- PORT PIN
- ATMEGA328 PIN FUNC
- DIGITAL PIN
- ANALOG-RELATED PIN
- PWM PIN
- SERIAL PIN

ⓘ General Information
 ⚠ Pay Attention
 ⛔ No Really **PAY ATTENTION**
 ⚡ LED

ⓘ On version 2 Analog Pins are reversed
 e.g. A0↔A7, A7↔A0

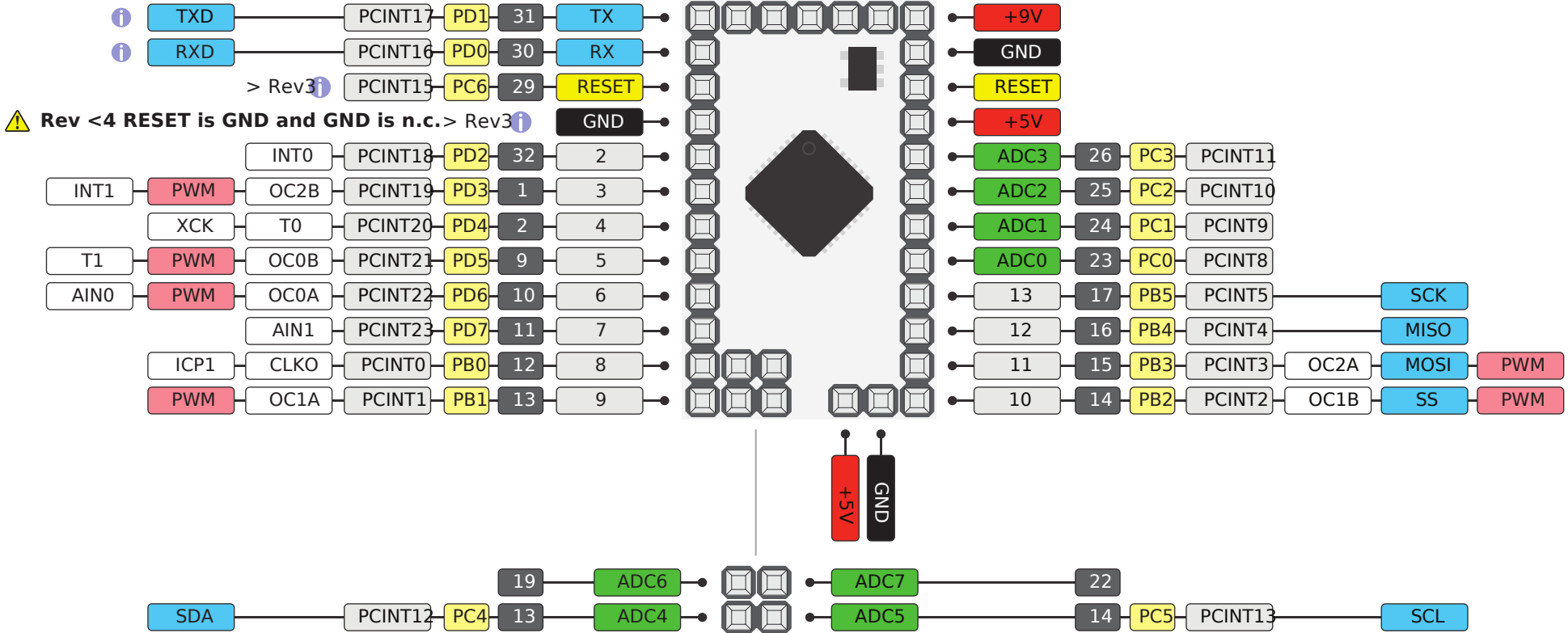
THE UNOFFICIAL
ARDUINO MINI
 PINOUT DIAGRAM

LEGEND	
	GND
	POWER
	CONTROL
	PHYSICAL PIN
	PORT PIN
	ATMEGA328 PIN FUNC
	DIGITAL PIN
	ANALOG-RELATED PIN
	PWM PIN
	SERIAL PIN
	General Information
	Pay Attention
	No Really PAY ATTENTION



Absolute max per pin 40mA recommended 20mA
Absolute max 200mA for entire package

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



THE UNOFFICIAL ARDUINO ProMini PINOUT DIAGRAM

ARDUINO ProMini

PINOUT DIAGRAM

