RESET

Arduino

IOREF
RESET
3V3
5V
GND
POWER
GND
VIN

3.3V
5V
GND
GND
VIN

A0
A1
A2
A3
A4
A5

A0
A1
A2
ANALOG IN
A3
A4
A5

ICSP2

AREF
GND
13
12
~ 11
~ 10
~ 9
8

DIGITAL (PWM=

7
~ 6
~ 5
4
~ 3
2
TX0 ▶ 1
RX0 ◀ 0

TX
RX
L

ICSP
1
ON

AREF
GND
D13
D12
D11   PWM
D10   PWM
D9   PWM
D8

D7
D6   PWM
D5   PWM
D4
D3   INT1   PWM
D2   INT0
D1   TX
D0   RX

| POWER | ANALOG | DIGITAL | SERIAL | INTERRUPT | PULSE WIDTH MODULATION |

THE DEFINITIVE
ARDUINO
UNO
PINOUT DIAGRAM

⚠ Absolute max per pin 40mA
reccomended 20mA

🛑 Absolute max 200mA
for entire package

ATMEGA8U2/ATMEGA16U2 ICSP
GND   RESET2
MOSI2 5V   MISO2 SCK2

USB JACK
TYPE B

ATMEGA328

RESET	PCINT14	PC6	1	28	PC5	PCINT13	ADC5	A5	SCL
0	RXD	PCINT16	PD0	2	27	PC4	PCINT12	ADC4	A4	SDA
1	TXD	PCINT17	PD1	3	26	PC3	PCINT11	ADC3	A3
2	INT0	PCINT18	PD2	4	25	PC2	PCINT10	ADC2	A2
OC2B	PWM	3	INT1	PCINT19	PD3	5	24	PC1	PCINT9	ADC1	A1
T0	4	XCK	PCINT20	PD4	6	23	PC0	PCINT8	ADC0	A0
	VCC	7	22	GND
	GND	8	21	AREF
OSC1	XTAL1	PCINT6	PB6	9	20	VCC
OSC2	XTAL2	PCINT7	PB7	10	19	PB5	PCINT5	SCK	13
OC0B	PWM	5	T1	PCINT21	PD5	11	18	PB4	PCINT4	MISO	12
OC0A	PWM	6	AIN0	PCINT22	PD6	12	17	PB3	PCINT3	OC2A	11	PWM	MOSI
7	AIN1	PCINT23	PD7	13	16	PB2	PCINT2	OC1B	10	PWM	SS
ICP1	8	CLKO	PCINT0	PB0	14	15	PB1	PCINT1	OC1A	9	PWM

7-12V Depending
on current drawn

GND
VIN

Cut to disable the auto-reset

POWER JACK

USB JACK

RESET EN

RESET Button

*R3 Only

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

Not Connected

*R3 Only
RESET PCINT14

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

ARDUINO
UNO

IOREF
RESET
3V3
5V
GND
POWER
GND
VIN

3V3
5V
GND
GND
VIN

1 PC6

TX
RX
L

28	PC5	19	A5		PCINT13	ADC5	SCL
27	PC4	18	A4		PCINT12	ADC4	SDA
21	AREF			AREF
	GND		
19	PB5	13		PCINT5	SCK
18	PB4	12		PCINT4	MISO
17	PB3	11	OC2A	PCINT3	PWM	MOSI
16	PB2	10	OC1B	PCINT2	PWM	SS
15	PB1	9	OC1A	PCINT1	PWM
14	PB0	8	CLKO	PCINT0	ICP1
13	PD7	7	AIN1	PCINT23
12	PD6	6	AIN0	PCINT22	PWM	OC0A
11	PD5	5	T1	PCINT21	PWM
6	PD4	4	T0	PCINT20	XCK
5	PD3	3	INT1	PCINT19	PWM	OC2B
4	PD2	2	INT0	PCINT18
3	PD1	1	TXD	PCINT17	TX
2	PD0	0	RXD	PCINT16	RX

*R3 Only

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

DIGITAL (PWM=

TX ▶ 1
RX ◀ 0

ADC0	PCINT8	14	A0	23	PC0
ADC1	PCINT9	15	A1	24	PC1
ADC2	PCINT10	16	A2	25	PC2
ADC3	PCINT11	17	A3	26	PC3
SDA	ADC4	PCINT12	18	A4	27	PC4
SCL	ADC5	PCINT13	19	A5	28	PC5

A0
A1
A2
ANALOG IN
A3
A4
A5

ON

www.pighixxx.com
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RESET PCINT14 1 PC6

19	PB5	13		PCINT5	SCK
18	PB4	12		PCINT4	MISO
17	PB3	11	OC2A	PCINT3	PWM	MOSI

GND

5V

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