THE DEFINITIVE ARDUINO MEGA PINOUT DIAGRAM
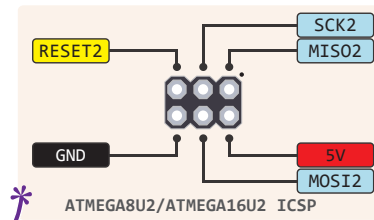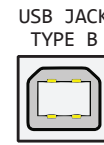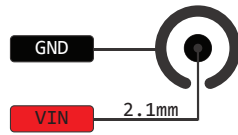
7-12V Depending on current drawn

GND
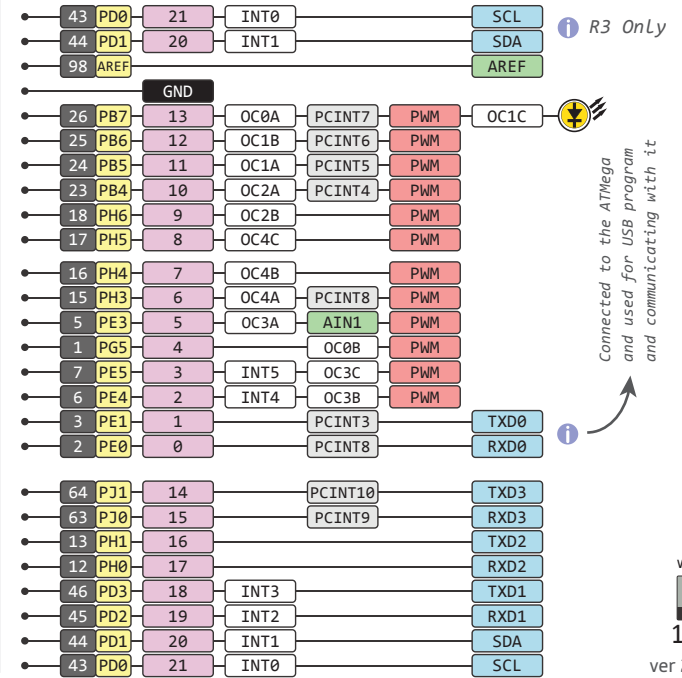
VIN 2.1mm

USB JACK TYPE B

RESET2 — SCK2 — MISO2

GND — 5V — MOSI2
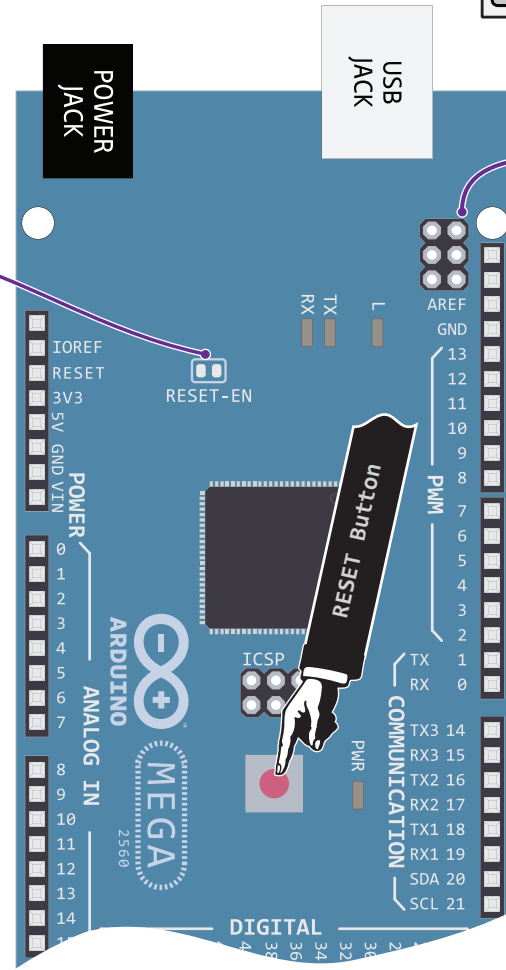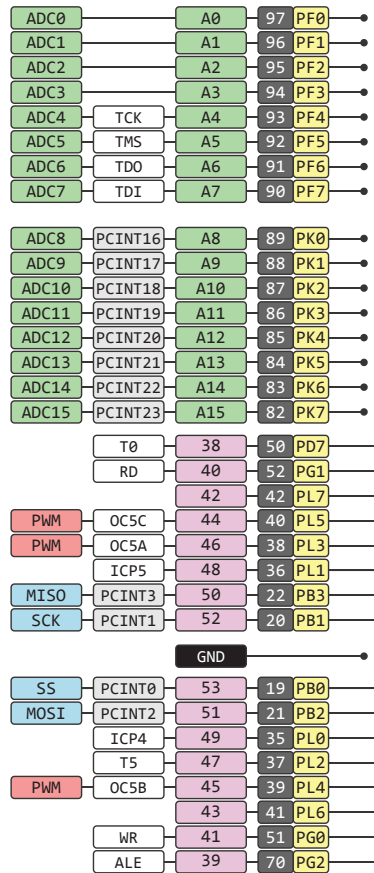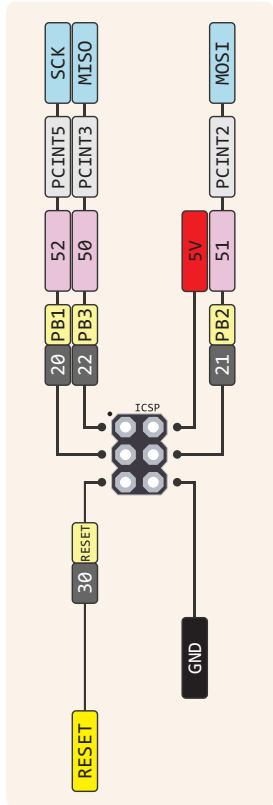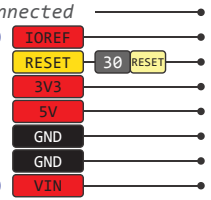
ATMEGA8U2/ATMEGA16U2 ICSP

POWER JACK

USB JACK

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   IOREF

RESET   30   RESET

3V3

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

5V
GND
GND
VIN

RESET-EN

RESET Button

		A0	97	PF0
ADC0		A0	97	PF0
ADC1		A1	96	PF1
ADC2		A2	95	PF2
ADC3		A3	94	PF3
ADC4	TCK	A4	93	PF4
ADC5	TMS	A5	92	PF5
ADC6	TDO	A6	91	PF6
ADC7	TDI	A7	90	PF7

ADC8	PCINT16	A8	89	PK0
ADC9	PCINT17	A9	88	PK1
ADC10	PCINT18	A10	87	PK2
ADC11	PCINT19	A11	86	PK3
ADC12	PCINT20	A12	85	PK4
ADC13	PCINT21	A13	84	PK5
ADC14	PCINT22	A14	83	PK6
ADC15	PCINT23	A15	82	PK7

ARDUINO MEGA 2560
ANALOG IN
COMMUNICATION
DIGITAL
PWM
ICSP
PWR
L
TX RX
POWER

R3 Only

43	PD0	21	INT0		SCL
44	PD1	20	INT1		SDA
98	AREF				AREF
		GND			
26	PB7	13	OC0A	PCINT7	PWM	OC1C
25	PB6	12	OC1B	PCINT6	PWM
24	PB5	11	OC1A	PCINT5	PWM
23	PB4	10	OC2A	PCINT4	PWM
18	PH6	9	OC2B		PWM
17	PH5	8	OC4C		PWM
16	PH4	7	OC4B		PWM
15	PH3	6	OC4A	PCINT8	PWM
5	PE3	5	OC3A	AIN1	PWM
1	PG5	4	OC0B		PWM
7	PE5	3	INT5	OC3C	PWM
6	PE4	2	INT4	OC3B	PWM
3	PE1	1	PCINT3		TXD0
2	PE0	0	PCINT8		RXD0

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

64	PJ1	14	PCINT10		TXD3
63	PJ0	15	PCINT9		RXD3
13	PH1	16			TXD2
12	PH0	17			RXD2
46	PD3	18	INT3		TXD1
45	PD2	19	INT2		RXD1
44	PD1	20	INT1		SDA
43	PD0	21	INT0		SCL

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13 MAR 2013
ver 2 rev 0 - 13.03.2013

T0	38	50	PD7
RD	40	52	PG1
	42	42	PL7
PWM	OC5C	44	40	PL5
PWM	OC5A	46	38	PL3
	ICP5	48	36	PL1
MISO	PCINT3	50	22	PB3
SCK	PCINT1	52	20	PB1
	GND			
SS	PCINT0	53	19	PB0
MOSI	PCINT2	51	21	PB2
	ICP4	49	35	PL0
	T5	47	37	PL2
PWM	OC5B	45	39	PL4
		43	41	PL6
	WR	41	51	PG0
	ALE	39	70	PG2

54	PC1	36		A9
56	PC3	34		A11
58	PC5	32		A13
60	PC7	30		A15
72	PA6	28		AD6
74	PA4	26		AD4
76	PA2	24		AD2
78	PA0	22		AD0

5V

77	PA1	23		AD1
75	PA3	25		AD3
73	PA5	27		AD5
71	PA7	29		AD7
59	PC6	31		A14
57	PC4	33		A12
55	PC2	35		A10
53	PC0	37		A8

DIGITAL

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

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

ICSP (left)

SCK — MISO — MOSI
PCINT5 — PCINT3 — PCINT2
52 — 50 — 5V — 51
PB1 — PB3 — PB2
20 — 22 — 21
ICSP
RESET 30
GND
RESET

Legend

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