

## Atmega168 Pin Mapping

### Arduino function

reset	(PCINT14/RESET) PC6	1
digital pin 0 (RX)	(PCINT16/RXD) PD0	2
digital pin 1 (TX)	(PCINT17/TXD) PD1	3
digital pin 2	(PCINT18/INT0) PD2	4
digital pin 3 (PWM)	(PCINT19/OC2B/INT1) PD3	5
digital pin 4	(PCINT20/XCK/T0) PD4	6
VCC	VCC	7
GND	GND	8
crystal	(PCINT6/XTAL1/TOSC1) PB6	9
crystal	(PCINT7/XTAL2/TOSC2) PB7	10
digital pin 5 (PWM)	(PCINT21/OC0B/T1) PD5	11
digital pin 6 (PWM)	(PCINT22/OC0A/AIN0) PD6	12
digital pin 7	(PCINT23/AIN1) PD7	13
digital pin 8	(PCINT0/CLKO/ICP1) PB0	14

### Arduino function

28	PC5 (ADC5/SCL/PCINT13)	analog input 5
27	PC4 (ADC4/SDA/PCINT12)	analog input 4
26	PC3 (ADC3/PCINT11)	analog input 3
25	PC2 (ADC2/PCINT10)	analog input 2
24	PC1 (ADC1/PCINT9)	analog input 1
23	PC0 (ADC0/PCINT8)	analog input 0
22	GND	GND
21	AREF	analog reference
20	AVCC	VCC
19	PB5 (SCK/PCINT5)	digital pin 13
18	PB4 (MISO/PCINT4)	digital pin 12
17	PB3 (MOSI/OC2A/PCINT3)	digital pin 11 (PWM)
16	PB2 (SS/OC1B/PCINT2)	digital pin 10 (PWM)
15	PB1 (OC1A/PCINT1)	digital pin 9 (PWM)

Digital Pins 11, 12 & 13 are used by the ICSP header for MISO, MOSI, SCK connections (Atmega168 pins 17, 18 & 19). Avoid low-impedance loads on these pins when using the ICSP header.