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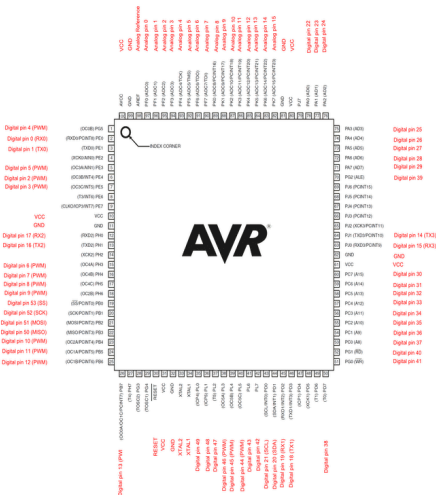
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ATmega2560-Arduino Pin Mapping

A diagram showing the correspondence between the pins on an Arduino board and those of the ATmega2560 microcontroller.

Last revision • 08.02.2024

Below is the pin mapping for the ATmega2560. The chip used in Arduino 2560. There are pin mappings to [Atmega8](#) and [Atmega 168/328](#) as well.



Arduino Mega 2560 PIN diagram.

Arduino Mega 2560 PIN mapping table

| Pin Number | Pin Name | Mapping Pin Name |
|------------|----------|------------------|
| | | Digital pin |

Help

| | | |
|---|--------------|-----------------|
| 1 | PG5 (OC0B) | OC0B 4 (PWM) |
|---|--------------|-----------------|

| Pin Number | Pin Name | Mapped Pin Name |
|------------|------------------------|----------------------|
| 2 | PE0 (RXD0/PCINT8) | Digital pin 0 (RX0) |
| 3 | PE1 (TXD0) | Digital pin 1 (TX0) |
| 4 | PE2 (XCK0/AIN0) | |
| 5 | PE3 (OC3A/AIN1) | Digital pin 5 (PWM) |
| 6 | PE4 (OC3B/INT4) | Digital pin 2 (PWM) |
| 7 | PE5 (OC3C/INT5) | Digital pin 3 (PWM) |
| 8 | PE6 (T3/INT6) | |
| 9 | PE7 (CLKO/ICP3/INT7) | |
| 10 | VCC | VCC |
| 11 | GND | GND |
| 12 | PH0 (RXD2) | Digital pin 17 (RX2) |
| 13 | PH1 (TXD2) | Digital pin 16 (TX2) |
| 14 | PH2 (XCK2) | |
| 15 | PH3 (OC4A) | Digital pin 6 (PWM) |
| 16 | PH4 (OC4B) | Digital pin 7 (PWM) |
| 17 | PH5 (OC4C) | Digital pin 8 (PWM) |
| 18 | PH6 (OC2B) | Digital pin 9 (PWM) |

| Pin Number | Pin Name | Mapped Pin Name |
|------------|--------------------------|-----------------------|
| 19 | PB0 (SS/PCINT0) | Digital pin 53 (SS) |
| 20 | PB1 (SCK/PCINT1) | Digital pin 52 (SCK) |
| 21 | PB2 (MOSI/PCINT2) | Digital pin 51 (MOSI) |
| 22 | PB3 (MISO/PCINT3) | Digital pin 50 (MISO) |
| 23 | PB4 (OC2A/PCINT4) | Digital pin 10 (PWM) |
| 24 | PB5 (OC1A/PCINT5) | Digital pin 11 (PWM) |
| 25 | PB6 (OC1B/PCINT6) | Digital pin 12 (PWM) |
| 26 | PB7 (OC0A/OC1C/PCINT7) | Digital pin 13 (PWM) |
| 27 | PH7 (T4) | |
| 28 | PG3 (TOSC2) | |
| 29 | PG4 (TOSC1) | |
| 30 | RESET | RESET |
| 31 | VCC | VCC |
| 32 | GND | GND |
| 33 | XTAL2 | XTAL2 |
| 34 | XTAL1 | XTAL1 |
| 35 | PL0 (ICP4) | Digital pin 49 |
| 36 | PL1 (ICP5) | Digital pin 48 |

| | | |
|--|--|----|
| | | 40 |
|--|--|----|

| Pin Number | Pin Name | Mapped Pin Name |
|------------|-------------------|----------------------|
| 37 | PL2 (T5) | Digital pin 47 |
| 38 | PL3 (OC5A) | Digital pin 46 (PWM) |
| 39 | PL4 (OC5B) | Digital pin 45 (PWM) |
| 40 | PL5 (OC5C) | Digital pin 44 (PWM) |
| 41 | PL6 | Digital pin 43 |
| 42 | PL7 | Digital pin 42 |
| 43 | PD0 (SCL/INT0) | Digital pin 21 (SCL) |
| 44 | PD1 (SDA/INT1) | Digital pin 20 (SDA) |
| 45 | PD2 (RXDI/INT2) | Digital pin 19 (RX1) |
| 46 | PD3 (TXD1/INT3) | Digital pin 18 (TX1) |
| 47 | PD4 (ICP1) | |
| 48 | PD5 (XCK1) | |
| 49 | PD6 (T1) | |
| 50 | PD7 (T0) | Digital pin 38 |
| 51 | PG0 (WR) | Digital pin 41 |
| 52 | PG1 (RD) | Digital pin 40 |

| | | |
|-----------------------|-------------------------|--------------------------------|
| 53 | PC0 (A8) | Digital pin 37 |
| Pin Number | Pin Name | Mapped Pin Name |
| 54 | PC1 (A9) | Digital pin 36 |
| 55 | PC2 (A10) | Digital pin 35 |
| 56 | PC3 (A11) | Digital pin 34 |
| 57 | PC4 (A12) | Digital pin 33 |
| 58 | PC5 (A13) | Digital pin 32 |
| 59 | PC6 (A14) | Digital pin 31 |
| 60 | PC7 (A15) | Digital pin 30 |
| 61 | VCC | VCC |
| 62 | GND | GND |
| 63 | PJ0 (RXD3/PCINT9) | Digital pin 15 (RX3) |
| 64 | PJ1 (TXD3/PCINT10) | Digital pin 14 (TX3) |
| 65 | PJ2 (XCK3/PCINT11) | |
| 66 | PJ3 (PCINT12) | |
| 67 | PJ4 (PCINT13) | |
| 68 | PJ5 (PCINT14) | |
| 69 | PJ6 (PCINT 15) | |
| 70 | PG2 (ALE) | Digital pin 39 |
| | | Digital pin |

| | | |
|----|-------------|----------------|
| 71 | PA7 (AD7) | Digital pin 29 |
|----|-------------|----------------|

| Pin Number | Pin Name | Mapped Pin Name |
|------------|-----------------------|-----------------|
| 72 | PA6 (AD6) | Digital pin 28 |
| 73 | PA5 (AD5) | Digital pin 27 |
| 74 | PA4 (AD4) | Digital pin 26 |
| 75 | PA3 (AD3) | Digital pin 25 |
| 76 | PA2 (AD2) | Digital pin 24 |
| 77 | PA1 (AD1) | Digital pin 23 |
| 78 | PA0 (AD0) | Digital pin 22 |
| 79 | PJ7 | |
| 80 | VCC | VCC |
| 81 | GND | GND |
| 82 | PK7 (ADC15/PCINT23) | Analog pin 15 |
| 83 | PK6 (ADC14/PCINT22) | Analog pin 14 |
| 84 | PK5 (ADC13/PCINT21) | Analog pin 13 |
| 85 | PK4 (ADC12/PCINT20) | Analog pin 12 |
| 86 | PK3 (ADC11/PCINT19) | Analog pin 11 |
| 87 | PK2 (ADC10/PCINT18) | Analog pin 10 |

| | | |
|-------------------|----------------------|------------------------|
| 88 | PK1 (ADC9/PCINT17) | Analog pin 9 |
| Pin Number | Pin Name | Mapped Pin Name |
| 89 | PK0 (ADC8/PCINT16) | Analog pin 8 |
| 90 | PF7 (ADC7/TDI) | Analog pin 7 |
| 91 | PF6 (ADC6/TDO) | Analog pin 6 |
| 92 | PF5 (ADC5/TMS) | Analog pin 5 |
| 93 | PF4 (ADC4/TCK) | Analog pin 4 |
| 94 | PF3 (ADC3) | Analog pin 3 |
| 95 | PF2 (ADC2) | Analog pin 2 |
| 96 | PF1 (ADC1) | Analog pin 1 |
| 97 | PF0 (ADC0) | Analog pin 0 |
| 98 | AREF | Analog Reference |
| 99 | GND | GND |
| 100 | AVCC | VCC |

Suggest changes

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