

ATmega 328P various pinouts

| ATmega logic | | | | | | PDIP | Arduino | JeeNode pinout | | | | |
|--------------|-------|-----|------|--------|-----------|--------|-----------------|----------------|------------|-------------------------|-----------|-------------------------------------------------------------------------------------------------------|
| Logic pin | PCINT | ADC | PWM | Serial | Misc. | 28-pin | pinout | P1-P4 | PSIX | FTDI | SPI/ISP | RFM12B |
| B0 | 0 | | | | CLK0 ICP1 | 14 | 8 | | | | SPI:7/B0 | |
| B1 | 1 | | OC1A | | | 15 | ~9 | | | | SPI:8/B1 | |
| B2 | 2 | | OC1B | | SS | 16 | ~10 | | | | SS | 14(nSEL) |
| B3 | 3 | | OC2A | MOSI | | 17 | ~11 | | | | SPI:4 | 12(SDI) |
| B4 | 4 | | | MISO | | 18 | 12 | | | | SPI:1 | 1(SD0) |
| B5 | 5 | | | SCK | | 19 | 13 (LED) | | | | SPI:3 | 13(SCK) |
| B6 | 6 | | | | XTAL1 | 9 | | | | | | |
| B7 | 7 | | | | XTAL2 | 10 | | | | | | |
| C0 | 8 | 0 | | | | 23 | A0 | P1:A/AIO | | | | |
| C1 | 9 | 1 | | | | 24 | A1 | P2:A/AIO | | | | |
| C2 | 10 | 2 | | | | 25 | A2 | P3:A/AIO | | | | |
| C3 | 11 | 3 | | | | 26 | A3 | P3:A/AIO | | | | |
| C4 | 12 | 4 | | SDA | | 27 | A4 | | PSIX:5/SDA | | | |
| C5 | 13 | 5 | | SCL | | 28 | A5 | | PSIX:6/SCL | | | |
| C6 | 14 | (6) | | | !RESET | 1 | RESET/RST/A6 | | PSIX:8/RST | FTDI:6/DTR+0.1µF | SPI:5 | |
| (C7 missing) | | (7) | | | | | A7 | | | | | |
| D0 | 16 | | | RXD | | 2 | 0/RX<- /RXI | | PSIX:2/RXD | FTDI:4/TX | | |
| D1 | 17 | | | TXD | | 3 | 1/TX->/TX0 | | PSIX:7/TXD | FTDI:5/RX | | |
| D2 | 18 | | | | INT0 | 4 | 2 | | | | I0 | 2(nIRQ) |
| D3 | 19 | | OC2B | | INT1 | 5 | ~3 | P*:I/IRQ | | | | |
| D4 | 20 | | | | XCK T0 | 6 | 4 | P1:D/DIO | | | | |
| D5 | 21 | | OC0B | | T1 | 11 | ~5 | P2:D/DIO | | | | |
| D6 | 22 | | OC0A | | AIN0 | 12 | ~6 | P3:D/DIO | | | | |
| D7 | 23 | | | | AIN1 | 13 | 7 | P4:D/DIO | | | | |
| VCC | | | | | | 7 | 5V/VCC | P*:+/-+3V | PSIX:1/+3V | | SPI:2/+3V | 9(VDD)/VCC |
| GND | | | | | | 8 | GND | P*:G/GND | PSIX:3/GND | FTDI:1/GND | SPI:6/GND | 10(GND)/GND/G |
| AVCC | | | | | | 20 | | P*:+/-+3V | PSIX:1/+3V | | | |
| AREF | | | | | | 21 | AREF | | | | | |
| AGND | | | | | | 22 | GND | P*:G/GND | PSIX:3/GND | FTDI:1/GND | SPI:6/GND | 10(GND)/GND/G |
| | | | | | | | 3.3V Vin/RAW | P*:P/PWR | PSIX:4/PWR | FTDI:3/PWR FTDI:2/NC | | 3(FSK/DATA/nFFS) 4(DCLK/CFIL/FFIT) 5(CLK) 6(nRES) 7(GND) 8(ANT)/Ant./A 11(nINT/VDI) |