| **DDRB** | **Description** |
| --- | --- |
| 0 | Input pin |
| 1 | Output pin |

| **PORTB** | **Description** |
| --- | --- |
| 0 | Output low value |
| 1 | Output high value |

| **DDRB** | **PORTB** | **Direction** | **Internal pull-up resistor** | **Description** |
| --- | --- | --- | --- | --- |
| 0 | 0 | Input | No | Tri-state, high-impedance |
| 0 | 1 | Input | Yes | PORTB will source current if ext. pulled low. |
| 1 | 0 | Output | No | Output low (Sink) |
| 1 | 1 | Output | No | Output high (Source) |

|  |
| --- |
|  |
| **Port** | **Pin** | **Input/output usage?** | |
| A | x | Microcontroller ATmega328P does not contain port A | |
| B | 0 | Yes (Arduino pin 8) | |
|  | 1 | Yes (Arduino pin ~9) | |
|  | 2 | Yes (Arduino pin ~10) | |
|  | 3 | Yes (Arduino pin ~11) | |
|  | 4 | Yes (Arduino pin 12) | |
|  | 5 | Yes (Arduino pin 13) | |
|  | 6 | No (xtal clock generator) | |
|  | 7 | No (xtal clock generator) | |
| C | 0 | Yes (Arduino pin A0) | |
|  | 1 | Yes (Arduino pin A1) | |
|  | 2 | Yes (Arduino pin A2) | |
|  | 3 | Yes (Arduino pin A3) | |
|  | 4 | Yes (Arduino pin A4) | |
|  | 5 | Yes (Arduino pin A5) | |
|  | 6 | No | |
|  | 7 | No | |
| D | 0 | Yes (Arduino pin RX<-0) | |
|  | 1 | Yes (Arduino pin TX->0) | |
|  | 2 | Yes (Arduino pin 2) | |
|  | 3 | Yes (Arduino pin ~3) | |
|  | 4 | Yes (Arduino pin 4) | |
|  | 5 | Yes (Arduino pin ~5) | |
|  | 6 | Yes (Arduino pin ~6) | |
|  | 7 | Yes (Arduino pin 7) | |
|  | | |