| | Servo Ports (1) | | | | |
|---|---|---|---|---|---|
| | 5V | 5V | 5V | 5V | 5V |
| | GND | GND | GND | GND | GND |
| TRIGORILLA | D4 | D5 | D6 | D11 | D12 |
| TRIGORILLA1.1 | D11 | D4 | D6 | D5 | D12 |

| AUX (2) | | |
|---|---|---|
| D42 | GND | 5V |
| D43 | GND | 5V |

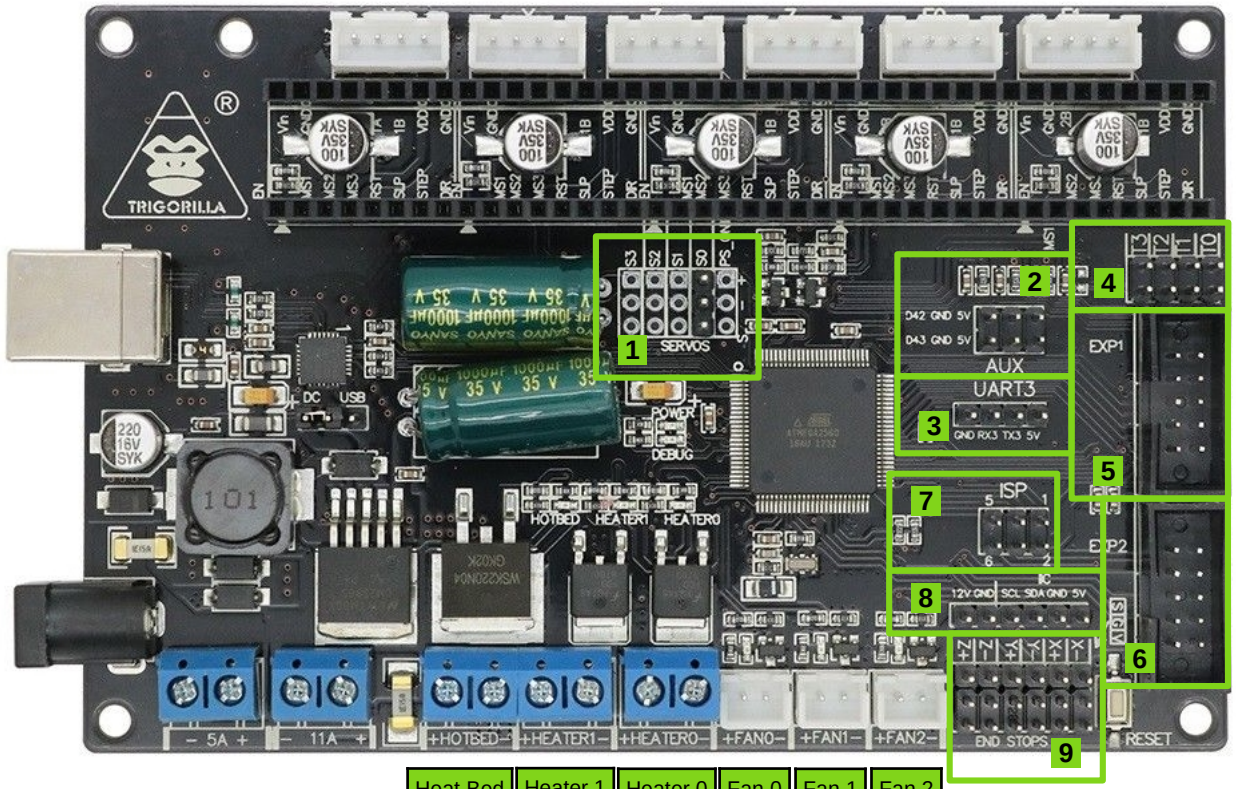
| ISP (7) | | |
|---|---|---|
| RST | D52 | D50 |
| GND | D51 | 5V |

| Temp Sensors (4) | | | |
|---|---|---|---|
| GND | GND | GND | GND |
| A12 (D66) | A15 (D69) | A14 (D68) | A13 (D67) |

| UART3 (3) | | | |
|---|---|---|---|
| GND | D15 | D14 | 5V |

| IIC (8) | | | | | |
|---|---|---|---|---|---|
| 12V | GND | D21 | D20 | GND | 5V |

X motor Y motor Z motor E0 motor Z motor




| Heat Bed | Heater 1 | Heater 0 | Fan 0 | Fan 1 | Fan 2 |
|---|---|---|---|---|---|
| D8 | D45 | D10 | D9 | D7 | D44 |

| EXP1 (5) | |
|---|---|
| 12864 LCD | |
| D37 | D35 |
| D17 | D16 |
| D23 | D25 |
| D27 | D29 |
| GND | 5V |

| EXP2 (6) | |
|---|---|
| 2004 LCD | |
| D50 | D52 |
| D31 | D53 |
| D33 | D51 |
| D49 | D41 |
| GND | RST |

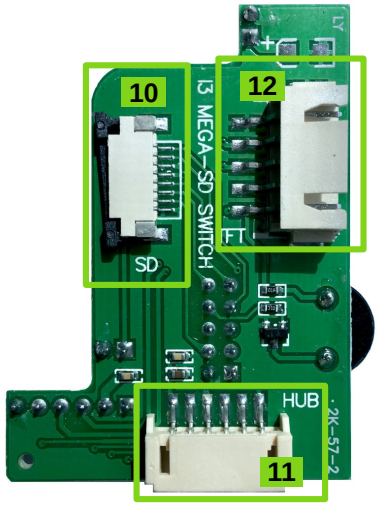
| Limit Switches (9) | | | | | |
|---|---|---|---|---|---|
| D19 | D18 | D15 | D14 | D2 | D3 |
| GND | GND | GND | GND | GND | GND |
| 5V | 5V | 5V | 5V | 5V | 5V |

| HUB (11) | | | | | |
|---|---|---|---|---|---|
| D19 | D18 | D2 | D3 | A13 (D67) | GND |
| BROWN | YELLOW | GREEN | BLUE | RED | BLACK |

| MEGA 2560 | | |
|---|---|---|
| PIN | Port | Bindings in Marlin |
| D2 (PWM, INT4) | E4 | Z_MIN_PROBE_PIN |
| D3 (PWM, INT5) | E5 | X_MIN_PIN |
| D4 (PWM) | G5 | <unused/unknown> |
| D5 (PWM, AIN1) | E3 | SERVO0_PIN |
| D6 (PWM) | H3 | <unused/unknown> |
| D7 (PWM) | H4 | CONTROLLER_FAN_PIN |
| D8 (PWM) | H5 | HEATER_BED_PIN |
| D9 (PWM) | H6 | FAN_PIN |
| D10 (PWM, PCINT4) | B4 | HEATER_0_PIN |
| D11 (PWM, PCINT5) | B5 | <unused/unknown> |
| D12 (PWM, PCINT6) | B6 | <unused/unknown> |
| D14 (TX3 / PCINT10) | J1 | <unused/unknown> (TFT) |
| D15 (RX3 / PCINT9) | J0 | <unused/unknown> (TFT) |
| D16 (TX2) | H1 | <unused/unknown> |
| D17 (RX2) | H0 | <unused/unknown> |
| D18 (TX1 / INT3) | D3 | Z_MIN_PIN |
| D19 (RX1 / INT2) | D2 | FIL_RUNOUT_PIN |
| D20 (SDA / INT1) | D1 | <unused/unknown> |
| D21 (SCL / INT0) | D0 | <unused/unknown> |
| D23 | A1 | <unused/unknown> |
| D25 | A3 | <unused/unknown> |

| MEGA 2560 | | |
|---|---|---|
| PIN | Port | Bindings in Marlin |
| D27 | A5 | <unused/unknown> |
| D29 | A7 | <unused/unknown> |
| D31 | C6 | BEEPER_PIN |
| D33 | C4 | <unused/unknown> |
| D35 | C2 | <unused/unknown> |
| D37 | C0 | <unused/unknown> |
| D41 | G0 | KILL_PIN |
| D42 | L7 | Y_MIN_PIN |
| D43 | L6 | X_MAX_PIN |
| D44 (PWM) | L5 | FAN2_PIN, E0_AUTO_FAN_PIN |
| D45 (PWM) | L4 | HEATER_1_PIN |
| D49 | L0 | SD_DETECT_PIN |
| D50 (MISO / PCINT3) | B3 | MISO_PIN |
| D51 (MOSI / PCINT2) | B2 | MOSI_PIN |
| D52 (SCK / PCINT1) | B1 | SCK_PIN |
| D53 (SS / PCINT0) | B0 | SS_PIN, SDSS |
| D66 — A12 (PCINT20) | K4 | TEMP_2_PIN |
| D67 — A13 (PCINT21) | K5 | TEMP_0_PIN |
| D68 — A14 (PCINT22) | K6 | TEMP_BED_PIN |
| D69 — A15 (PCINT23) | K7 | TEMP_1_PIN |

**- can be used as _SERIAL_RX_PIN for TMC2208, but D50-D53 only with disabled SD support.**

| SD (10) |
|---|
| D53 |
| D51 |
| GND |
| 5V |
| D52 |
| D50 |
| D49 |
| GND |

| TFT (12) | |
|---|---|
| GND | YELLOW |
| D15 | GREY |
| D14 | BLUE |
| RST | RED |
| 5V | GREEN |