

20251021 Ramps 1.6 Pinout.xlsx

| Order | Ramps 1.6 Pin | AtMega pin | Conexión | Arduino Pin | Conector | Comentarios | Comments |
|-------|---------------|------------|------------------------|-------------|-------------------------|-----------------------------------|------------------------|
| 1 | D9 | PH6 | Calentamiento boquilla | | Bornas | | Nozzle heating |
| 2 | D10 | PB4 | Ventilador de capa | | Bornas | | Layer fan |
| 3 | D8 | PH5 | Calentamiento cama | | Bornas | | Bed heating |
| 4 | D4 | PG5 | BITouch Servo | | Servos | Servo #4 | BITouch Servo |
| 5 | D5 | PE3 | Salida servo libre | A1 | Servos | Servo #3 | Free servo out |
| 6 | D6 | PH3 | Servo | | Servos | Servo #2 | Servo |
| 7 | D11 | PB5 | Neopixel Leds | | Servos | Servo #1 | Neopixel Leds strip |
| 8 | D0 | PE0 | | RXD0 | AUX-1 | | |
| 9 | D1 | PE1 | | TXD0 | AUX-1 | | |
| 10 | D58 | PF4 | | A4 | AUX-1 | | |
| 11 | D57 | PF3 | BITouch Contacto | A3 | AUX-1 | Cables negro y blanco del BITouch | BITouch output |
| 12 | D63 | PK1 | Zumbador | A9 | AUX-2 | Necesita mosfet exterior | Beeper |
| 13 | D40 | PG1 | Tira led monocolor | | AUX-2 | Necesita mosfet exterior | Led strip |
| 14 | D42 | PL7 | | | AUX-2 | | |
| 15 | D65 | PK3 | | A11 | AUX-2 | | |
| 16 | D59 | PF5 | Ventilador extrusora | A5 | AUX-2 | Necesita mosfet exterior | Hot end fan |
| 17 | D64 | PK2 | | A10 | AUX-2 | | |
| 18 | D44 | PL5 | | | AUX-2 | | |
| 19 | D66 | PK4 | | A12 | AUX-2 | | |
| 20 | D52 | PB1 | | SCK | AUX-3 / SPI | | |
| 21 | D50 | PB3 | | MISO | AUX-3 / SPI | | |
| 22 | D53 | PB0 | | SS | AUX-3 / SPI | | |
| 23 | D51 | PB2 | | MOSI | AUX-3 / SPI | | |
| 24 | D49 | PL0 | | | AUX-3 / SPI | | |
| 25 | D16 | PH1 | | TXD2 | AUX-4 | | |
| 26 | D17 | PH0 | | RXD2 | AUX-4 | | |
| 27 | D23 | PA1 | | | AUX-4 | | |
| 28 | D25 | PA3 | | | AUX-4 | | |
| 29 | D27 | PA5 | | | AUX-4 | | |
| 30 | D29 | PA7 | | | AUX-4 | | |
| 31 | D31 | PC6 | | | AUX-4 | | |
| 32 | D33 | PC4 | | | AUX-4 | | |
| 33 | D35 | PC2 | | | AUX-4 | | |
| 34 | D37 | PC0 | | | AUX-4 | | |
| 35 | D39 | PG2 | | BLE | AUX-4 | | |
| 36 | D41 | PG0 | | WR | AUX-4 | | |
| 37 | D43 | PL6 | | | AUX-4 | | |
| 38 | D45 | PL4 | | | AUX-4 | | |
| 39 | D47 | PL2 | | | AUX-4 | | |
| 40 | D32 | PC5 | | | AUX-4 | | |
| 41 | D21 | PD0 | | SCL | I2C | | |
| 42 | D20 | PD1 | | SDA | I2C | | |
| 43 | D3 | PE5 | X- | | LIMITS | X- Stop pin | X- Stop pin |
| 44 | D2 | PE4 | X+ | | LIMITS | Sensor de filamento | Filament runout sensor |
| 45 | D14 | PJ1 | Y- | TXD3 | LIMITS | Y- Stop pin | Y- Stop pin |
| 46 | D15 | PJ0 | Y+ | TXD3 | LIMITS | Sensor de filamento inteligente | Smart filament sensor |
| 47 | D18 | PD3 | Z- | TXD1 | LIMITS | Z- Stop pin | Z- Stop pin |
| 48 | D19 | PD2 | Z+ | RXD1 | LIMITS | | |
| 49 | D69 | PK7 | Bed sensor | A15 | TERMISTORS | Sensor temperatura cama caliente | Bed temp. Sensor |
| 50 | D68 | PK6 | Sensor temp. libre | A14 | TERMISTORS | Sensor temperatura libre | Unused temp. Sensor |
| 51 | D67 | PK5 | Nozzle sensor | A13 | TERMISTORS | Sensor temperatura boquilla | Nozzle temp. Sensor |
| 52 | D54 | PF0 | step_pin | A0 | stepper_x | Señales motor X | X axis motor signals |
| 53 | D55 | PF1 | dir_pin | A1 | stepper_x | Señales motor X | X axis motor signals |
| 54 | D38 | PD7 | enable_pin | | stepper_x | Señales motor X | X axis motor signals |
| 55 | D60 | PF6 | step_pin | A6 | stepper_y | Señales motor Y | Y axis motor signals |
| 56 | D61 | PF7 | dir_pin | A7 | stepper_y | Señales motor Y | Y axis motor signals |
| 57 | D56 | PF2 | enable_pin | A2 | stepper_y | Señales motor Y | Y axis motor signals |
| 58 | D46 | PL3 | step_pin | | stepper_z | Señales motor Z | Z axis motor signals |
| 59 | D48 | PL1 | dir_pin | | stepper_z | Señales motor Z | Z axis motor signals |
| 60 | D62 | PK0 | enable_pin | A8 | stepper_z | Señales motor Z | Z axis motor signals |
| 61 | D36 | PC1 | step_pin | | stepper_z1 (Former EXT1 | Señales motor Z1 | Z1 axis motor signals |
| 62 | D34 | PC3 | dir_pin | | stepper_z1 (Former EXT1 | Señales motor Z1 | Z1 axis motor signals |
| 63 | D30 | PC7 | enable_pin | | stepper_z1 (Former EXT1 | Señales motor Z1 | Z1 axis motor signals |
| 64 | D26 | PA4 | step_pin | | extruder | Señales motor Extruder | Extruder motor signals |
| 65 | D28 | PA6 | dir_pin | | extruder | Señales motor Extruder | Extruder motor signals |
| 66 | D24 | PA2 | enable_pin | | extruder | Señales motor Extruder | Extruder motor signals |