

## 20251021 Ramps 1.6 Pinout.xlsx

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

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49	D69	PK7	Bed sensor	A15	TERMISTORS	Sensor temperatura cama caliente	Bed temp. Sensor
24	D49	PL0			AUX-3 / SPI		
59	D48	PL1	dir_pin		stepper_z	Señales motor Z	Z axis motor signals
39	D47	PL2			AUX-4		
58	D46	PL3	step_pin		stepper_z	Señales motor Z	Z axis motor signals
38	D45	PL4			AUX-4		
18	D44	PL5			AUX-2		
37	D43	PL6			AUX-4		
14	D42	PL7			AUX-2		