

## 20251021 Ramps 1.6 Pinout.xlsx

Order	Ramps 1.6 Pin	AtMega pin	Conexión	Arduino Pin	Conector	Comentarios	Comments
8	D0	PE0		RXD0	AUX-1		
9	D1	PE1		TXD0	AUX-1		
2	D10	PB4	Ventilador de capa		Bornas		Layer fan
7	D11	PB5	Neopixel Leds		Servos	Servo #1	Neopixel Leds strip
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
25	D16	PH1		TXD2	AUX-4		
26	D17	PH0		RXD2	AUX-4		
47	D18	PD3	Z-	TXD1	LIMITS	Z- Stop pin	Z- Stop pin
48	D19	PD2	Z+	RXD1	LIMITS		
44	D2	PE4	X+		LIMITS	Sensor de filamento	Filament runout sensor
42	D20	PD1		SDA	I2C		
41	D21	PD0		SCL	I2C		
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		
43	D3	PE5	X-		LIMITS	X- Stop pin	X- Stop pin
63	D30	PC7	enable_pin		stepper_z1 (Former EXT1	Señales motor Z1	Z1 axis motor signals
31	D31	PC6			AUX-4		
40	D32	PC5			AUX-4		
32	D33	PC4			AUX-4		
62	D34	PC3	dir_pin		stepper_z1 (Former EXT1	Señales motor Z1	Z1 axis motor signals
33	D35	PC2			AUX-4		
61	D36	PC1	step_pin		stepper_z1 (Former EXT1	Señales motor Z1	Z1 axis motor signals
34	D37	PC0			AUX-4		
54	D38	PD7	enable_pin		stepper_x	Señales motor X	X axis motor signals
35	D39	PG2		BLE	AUX-4		
4	D4	PG5	BITouch Servo		Servos	Servo #4	BITouch Servo
13	D40	PG1	Tira led		AUX-2	Tira led monocolor	Led strip
36	D41	PG0		WR	AUX-4		
14	D42	PL7			AUX-2		
37	D43	PL6			AUX-4		
18	D44	PL5			AUX-2		
38	D45	PL4			AUX-4		
58	D46	PL3	step_pin		stepper_z	Señales motor Z	Z axis motor signals
39	D47	PL2			AUX-4		
59	D48	PL1	dir_pin		stepper_z	Señales motor Z	Z axis motor signals
24	D49	PL0			AUX-3 / SPI		
5	D5	PE3	Salida servo libre	A1	Servos	Servo #3	Free servo out
21	D50	PB3		MISO	AUX-3 / SPI		
23	D51	PB2		MOSI	AUX-3 / SPI		
20	D52	PB1		SCK	AUX-3 / SPI		
22	D53	PB0		SS	AUX-3 / SPI		
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
6	D6	PH3	Servo		Servos	Servo #2	Servo
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
60	D62	PK0	enable_pin	A8	stepper_z	Señales motor Z	Z axis motor signals

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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
49	D69	PK7	Bed sensor	A15	TERMISTORS	Sensor temperatura cama caliente	Bed temp. Sensor
3	D8	PH5	Calentamiento cama		Bornas		Bed heating
1	D9	PH6	Calentamiento boquilla		Bornas		Nozzle heating