

## Peguino Board Pinouts

Pin	Name	Type	Details	Arduino Nano	Peguino Ports	Pin	Name	Type	Details	ESP32 DEV 1	Peguino Ports
1	D13	I/O	Digital I/O Pin		F5	1	3V3	Output	+3.3 Volt Output		
2	3V3	Output	+3.3 Volt Output		F3	2	GND	Power	Supply Ground / minus		A2, B2
3	AREF	Input	ADC reference			3	GPIO15	I/O	Digital I/O (PWM), Analog Input 2 Channel 3		A3
4	A0	Input	Analog Input Channel 0		A3	4	GPIO2	I/O	Digital I/O (PWM), Analog Input 2 Channel 2		A4
5	A1	Input	Analog Input Channel 1		A4	5	GPIO4	I/O	Digital I/O (PWM), Analog Input 2 Channel 0		
6	A2	Input	Analog Input Channel 2		C3	6	GPIO16	I/O	Digital I/O (PWM)		
7	A3	Input	Analog Input Channel 3		D2	7	GPIO17	I/O	Digital I/O (PWM)		
8	A4	Input	Analog Input Channel 4, I2C SDA		B4	8	GPIO5	I/O	Digital I/O (PWM)		
9	A5	Input	Analog Input Channel 5, I2C SDL		B3	9	GPIO18	I/O	Digital I/O (PWM)		
10	A6	Input	Analog Input Channel 6		D1	10	GPIO19	I/O	Digital I/O (PWM)		
11	A7	Input	Analog Input Channel 7			11	GPIO21	I/O	Digital I/O (PWM), I2C SDA		B4
12	+5V	Output	+5 Volt Output		A5, B5	12	GPIO3	I/O	Digital I/O (PWM)		
13	RESET	Input	Reset ( Active Low )			13	GPIO1	I/O	Digital I/O (PWM)		
14	GND	Power	Supply Ground / minus		A2, B2	14	GPIO22	I/O	Digital I/O (PWM), I2C SCL		B3
15	VIN	Power	Supply voltage / + 5V to + 9V			15	GPIO23	I/O	Digital I/O (PWM)		C2
16	D1 / TX	I/O	Digital I/O Pin, Serial TX Pin			16	EN	Input	Chip-Enable Signal ( Active High )		
17	D0 / RX	I/O	Digital I/O Pin, Serial RX Pin			17	GPIO36	I/O	Digital I/O (PWM), Analog Input 1 Channel 0		C3
18	RESET	Input	Reset ( Active Low )			18	GPIO39	I/O	Digital I/O (PWM), Analog Input 1 Channel 3		
19	GND	Power	Supply Ground			19	GPIO34	I/O	Digital I/O (PWM), Analog Input 1 Channel 6		
20	D2	I/O	Digital I/O Pin		C2	20	GPIO35	I/O	Digital I/O (PWM), Analog Input 1 Channel 7		
21	D3	I/O	Digital I/O Pin (PWM)			21	GPIO32	I/O	Digital I/O (PWM), Analog Input 1 Channel 4		
22	D4	I/O	Digital I/O Pin			22	GPIO33	I/O	Digital I/O (PWM), Analog Input 1 Channel 5		D3
23	D5	I/O	Digital I/O Pin (PWM)		C1	23	GPIO25	I/O	Digital I/O (PWM), Analog Input 2 Channel 8, DAC 1		D2
24	D6	I/O	Digital I/O Pin (PWM)		D3	24	GPIO26	I/O	Digital I/O (PWM), Analog Input 2 Channel 9, DAC 2		D1
25	D7	I/O	Digital I/O Pin			25	GPIO27	I/O	Digital I/O (PWM), Analog Input 2 Channel 7		C1
26	D8	I/O	Digital I/O Pin			26	GPIO14	I/O	Digital I/O (PWM), Analog Input 2 Channel 6		F5
27	D9	I/O	Digital I/O Pin (PWM)			27	GPIO12	I/O	Digital I/O (PWM), Analog Input 2 Channel 5		F4
28	D10	I/O	Digital I/O Pin (PWM)			28	GPIO13	I/O	Digital I/O (PWM), Analog Input 2 Channel 4		F2
29	D11	I/O	Digital I/O Pin (PWM)		F4	29	GND	Power	Supply Ground / minus		
30	D12	I/O	Digital I/O Pin		F2	30	VIN	Power	Supply voltage / + 5V to + 9V		A5, B5

A	MISO	Input or Output	Master In / Slave Out
B	SCK	Output	Clock from Master to Slave
C	RST	Reset	Input: Active Low
D	GND	Power	Supply Ground
E	MOSI	Output or Input	Master Out / Slave In
F	Vcc	+ 5V Output	Power Supply voltage level

GPIO Pins:  
1,2,3,4,5, 12,13,14,15,16,17,18,19, 21,22,23, 25,26,27, 32,33,34,35,36, 39

Note: GPIO 4,12,13,14,15,25,26,27 don't work as Analog Input ports while WIFI is on