

⚠️ MAXIMUM current per pin
40mA, 20mA recommended

⚠️ MAXIMUM current 200mA
for the entire package

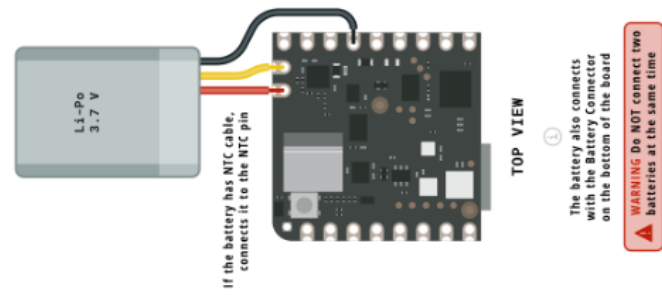
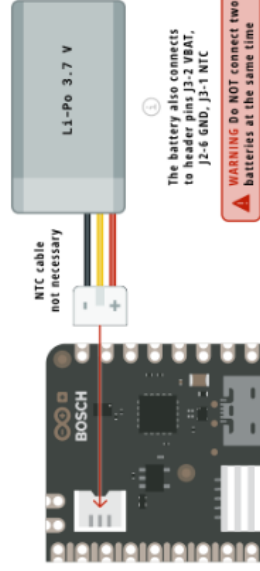
⚠️ The total current of each port
power group **should not**
exceed 100mA

VIN 7-21 V input to the board.

NOTE: CIP0/COPI have previously
been referred to as MISO/MOSI

Ground
Power
LED
Internal Pin
SWD Pin

Digital Pin
Analog Pin
Other Pin
Microcontroller's Port
Default

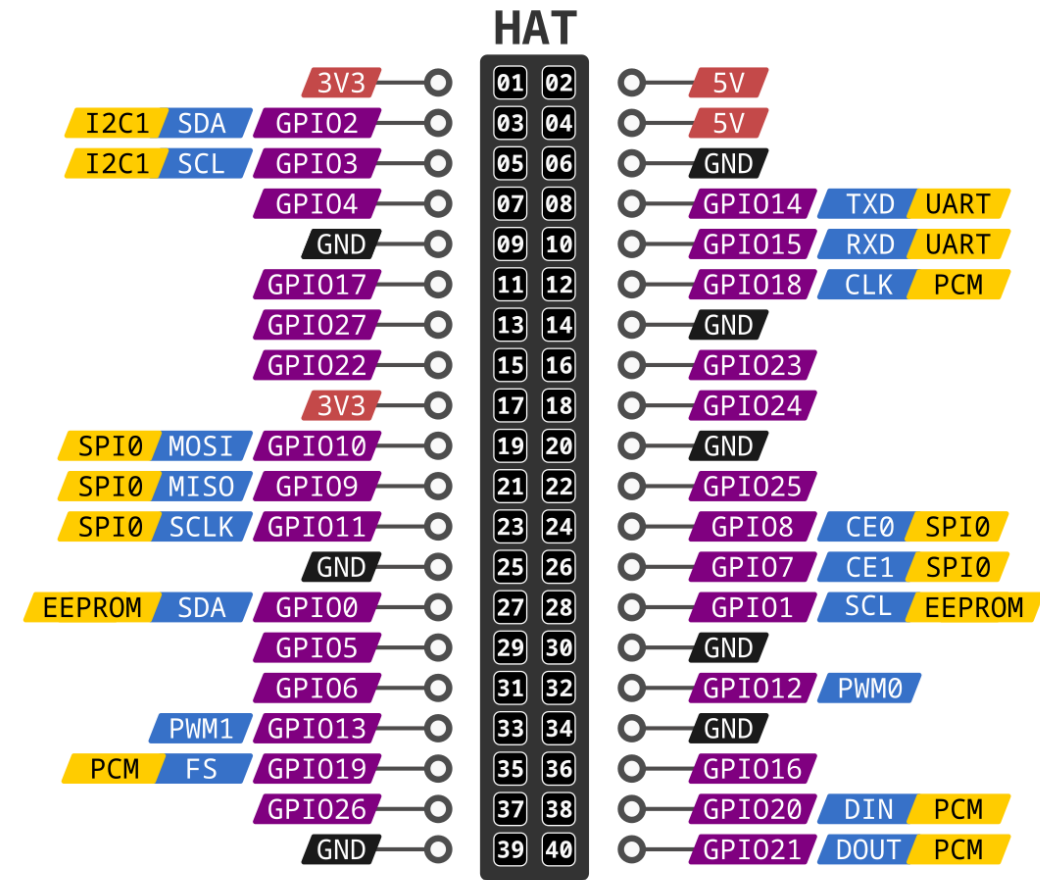


Legend:

- Power
- Power Input
- Power Output
- Ground
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)
- I2C
- SPI
- UART/USART
- Other SERIAL Communication
- Analog
- PWM/Timer
- LED
- RGB LED
- Other

MAXIMUM LPTQs are driven by bidirectional translators powered by VDDIO_EXT. These translators are meant for low power and can only drive very limited current. please check translator datasheet for details. VDDIO_EXT is software programmable between 1.8 and 3.3V

GPIO/COPI have previously been referred to as MISO/MOSI



GND
 POWER
 GPIO NUMBER
 PIN FUNCTION

BeagleY-AI

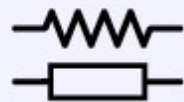
40-pin HAT header pinout

4 Bands



1.2 Ω 10%

Color	1st Digit	2nd Digit	Multiplier	Tolerance
Black	0	0	1	
Brown	1	1	10	1%
Red	2	2	100	2%
Orange	3	3	1 K	
Yellow	4	4	10 K	
Green	5	5	100 K	0.5%
Blue	6	6	1 M	0.25%
Violet	7	7	10 M	0.1%
Gray	8	8		0.05%
White	9	9		
Gold			0.1	5%
Silver			0.01	10%



Resistor Color Codes

1K = 1 000
1M = 1 000 000