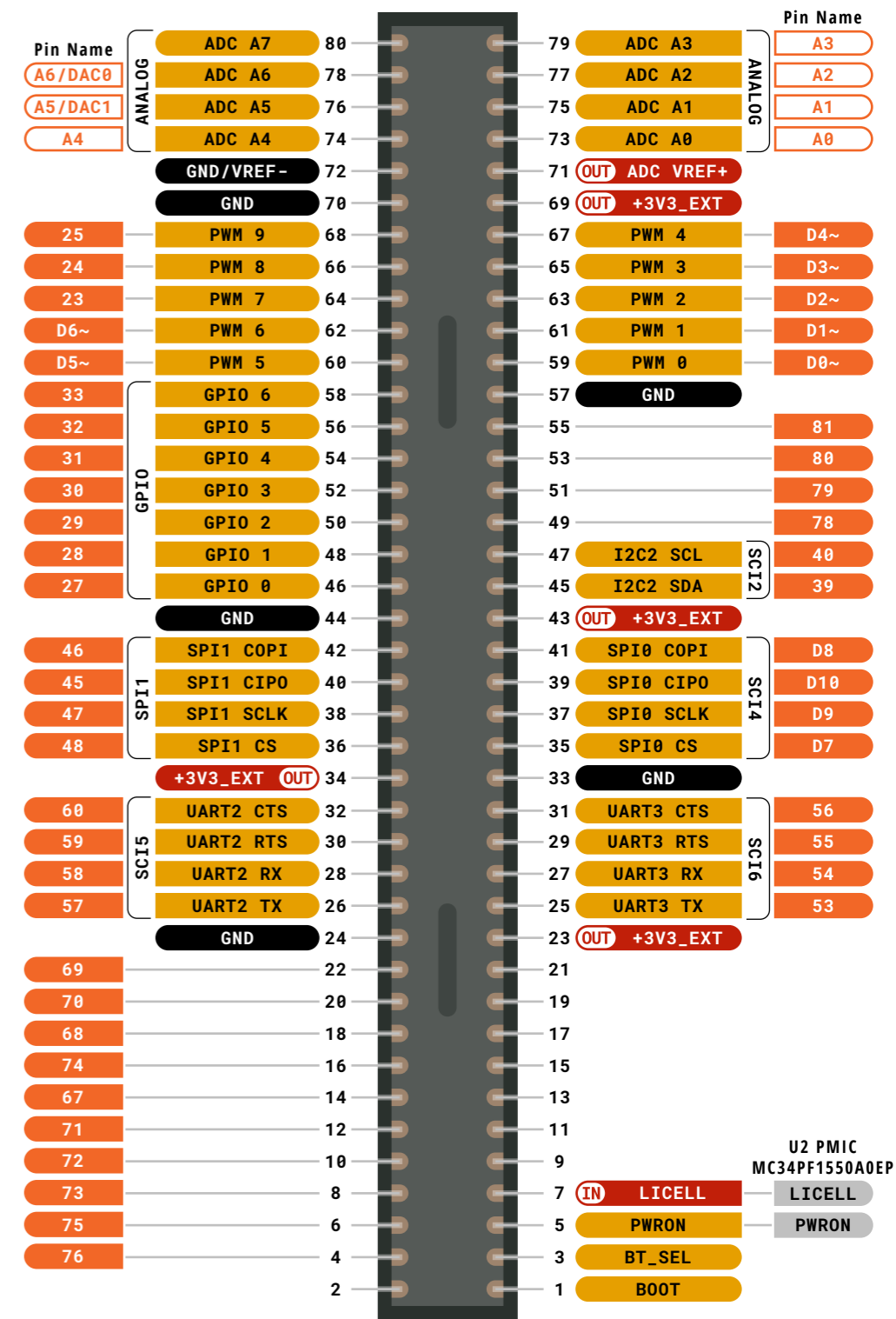


! +3V3_EXT is not the same +3V3 which is powering up the microcontroller. +3V3_EXT is a separate net generated by the PMIC

i Using the numbers in the "pin name" column on the Arduino IDE, you can control the corresponding pins



Legend:

- Power: (Red box) Power Input (IN), Power Output (OUT), Ground (Black box)
- GPIO Digital External: (Orange box)
- Analog External: (Light Orange box)
- Main Part: (Yellow box)
- Secondary Part: (Light Yellow box)
- Internal Component: (Grey box)
- Other Pins (Reset, System Control, Debugging): (Dark Grey box)
- LED: (Light Blue box) LED, (Light Green box) RGB LED, (White box) Other

- ! MAXIMUM current per pin is 8mA
- ! MAXIMUM current overall is 80mA
- i CIP0/COPI have previously been referred to as MISO/MOSI

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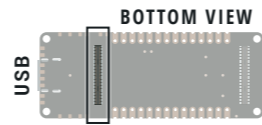
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WARNING!

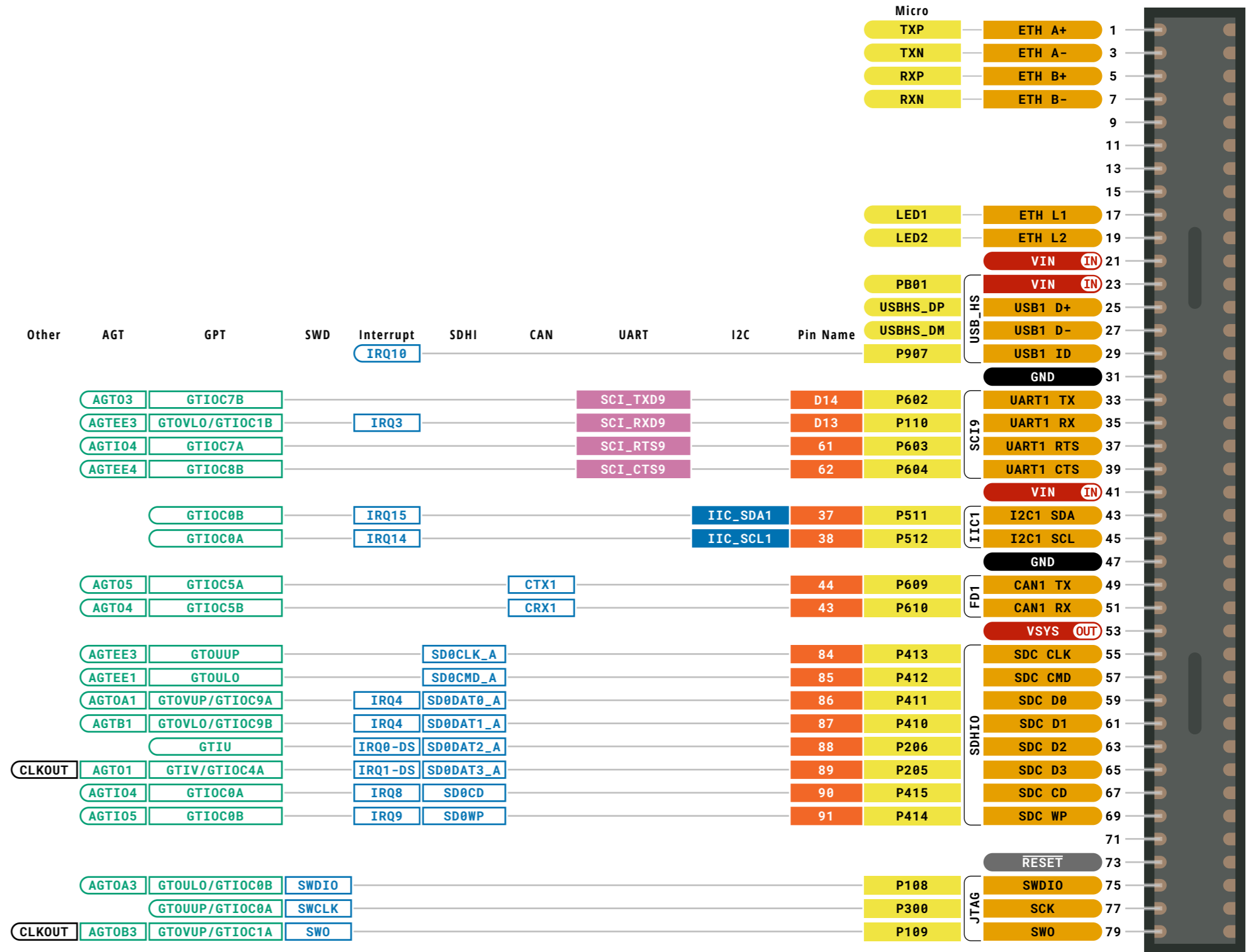
Advanced Section

The following information is for advanced use only and may not be officially supported by Arduino software





J1_odd



Using the numbers in the "pin name" column on the Arduino IDE, you can control the corresponding pins

Legend:

- Power
- (IN) Power Input
- (OUT) 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
- Default
- Default
- Default
- LED
- RGB LED
- Other

MAXIMUM current per pin is 8mA

MAXIMUM current overall is 80mA

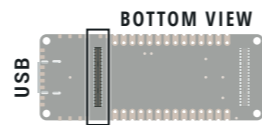
CIP0/COPI have previously been referred to as MISO/MOSI

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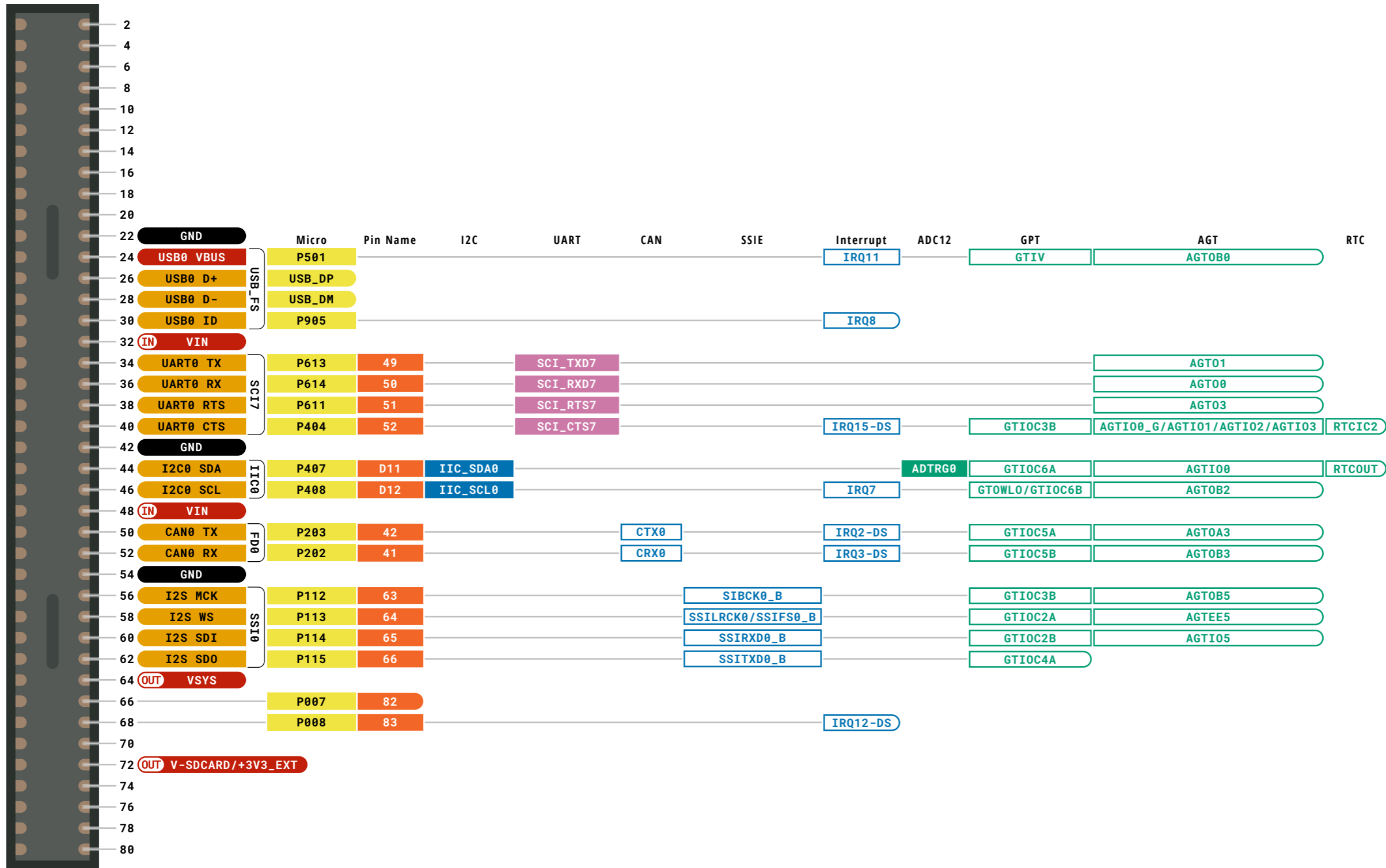
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J1_even

J1



Using the numbers in the "pin name" column on the Arduino IDE, you can control the corresponding pins

Legend:

- Power
- **IN** Power Input
- **OUT** 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
- D Default
- D Default
- D Default
- D Default
- ⚠ LED
- ⚠ RGB LED
- Other

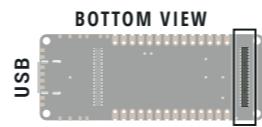
- ⚠ **MAXIMUM** current per pin is 8mA
- ⚠ **MAXIMUM** current overall is 80mA
- i CIP0/COPI have previously been referred to as MISO/MOSI



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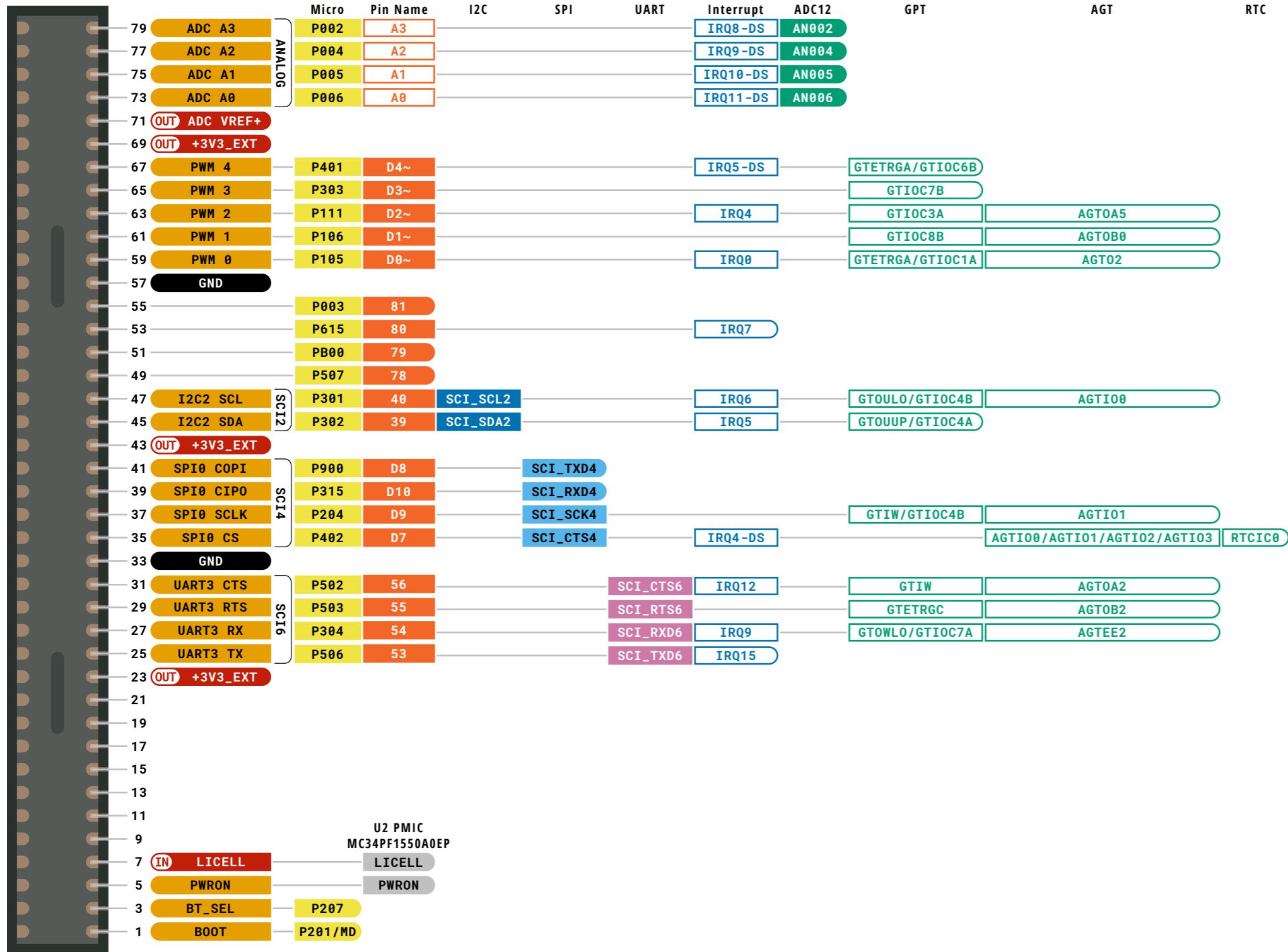
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J2_odd

J2



U2 PMIC
MC34PF1550A0EP

Using the numbers in the "pin name" column on the Arudino IDE, you can control the corresponding pins

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
- Default
- Default
- Default
- Default
- Default
- LED
- RGB LED
- Other

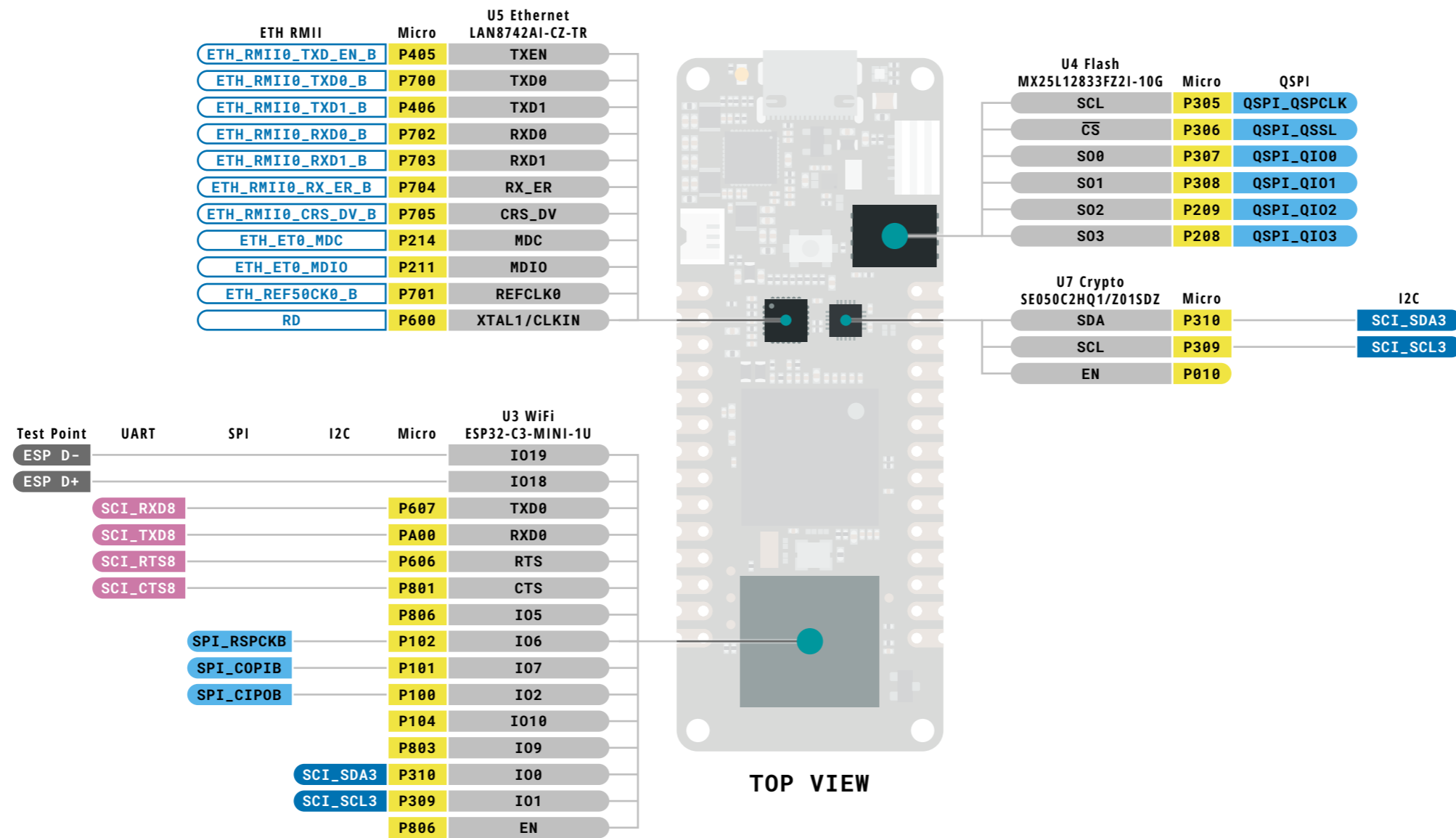
- MAXIMUM current per pin is 8mA
- MAXIMUM current overall is 80mA
- CIP0/COPI have previously been referred to as MISO/MOSI



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Legend:

- Power
- Ground

- IN Power Input
- OUT Power Output

- 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
- D Default
- D Default
- D Default
- D Default

- LED
- RGB LED
- Other

- ⚠ **MAXIMUM** current per pin is 8mA
- ⚠ **MAXIMUM** current overall is 80mA
- i CIP0/COPI have previously been referred to as MISO/MOSI

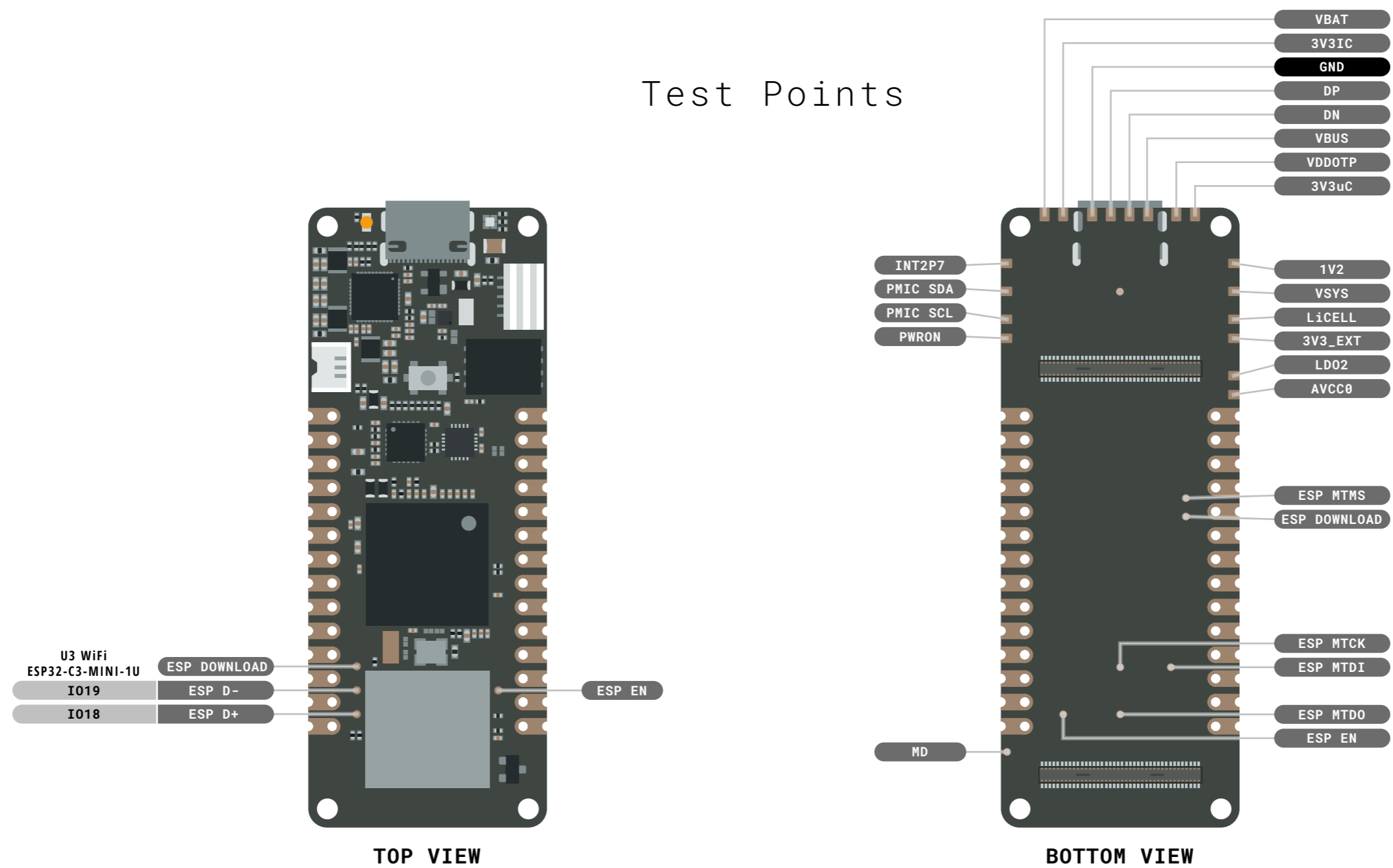


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Test Points



Legend:

■ Power	IN Power Input	□ GPIO Digital External	□ LED
■ Ground	OUT Power Output	□ Analog External	□ RGB LED
		■ Main Part	□ Other
		■ Secondary Part	
		■ Internal Component	
		■ Other Pins (Reset, System Control, Debugging)	

⚠️ MAXIMUM current per pin is 8mA
⚠️ MAXIMUM current overall is 80mA
i CIP0/COPI have previously been referred to as MISO/MOSI



**PORTENTA
C33**

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