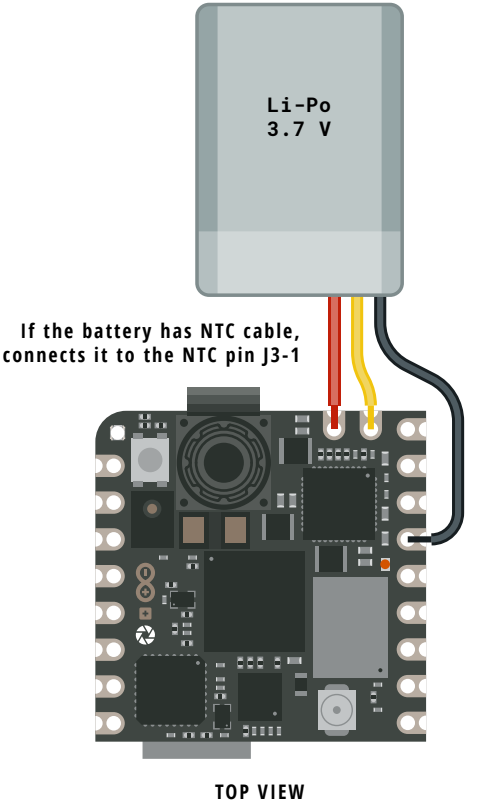
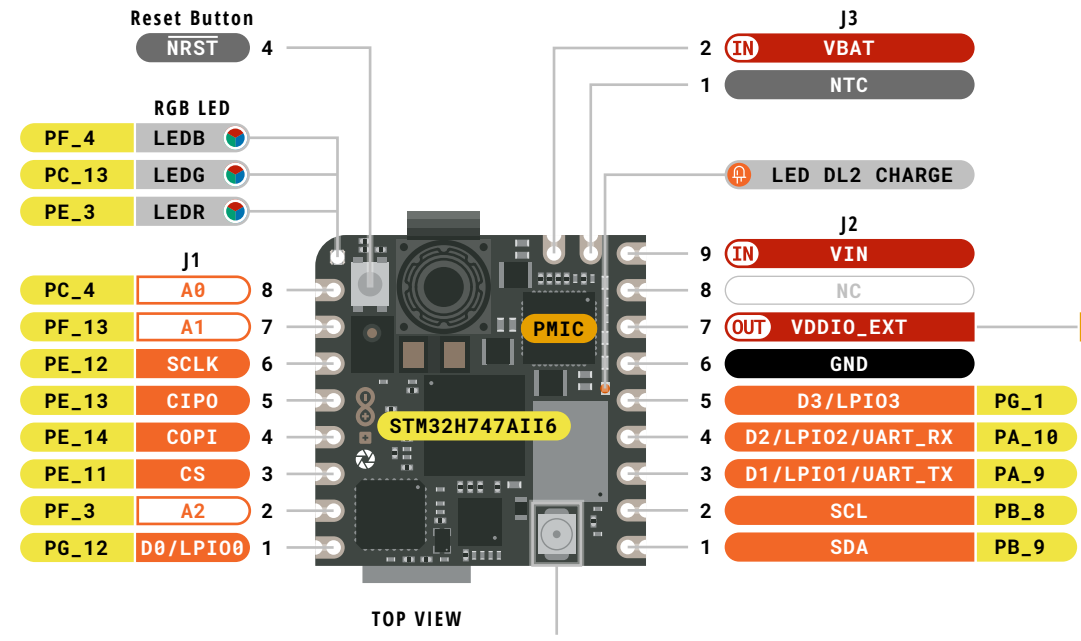




The battery also connects with the Battery Connector J4 on the bottom of the board

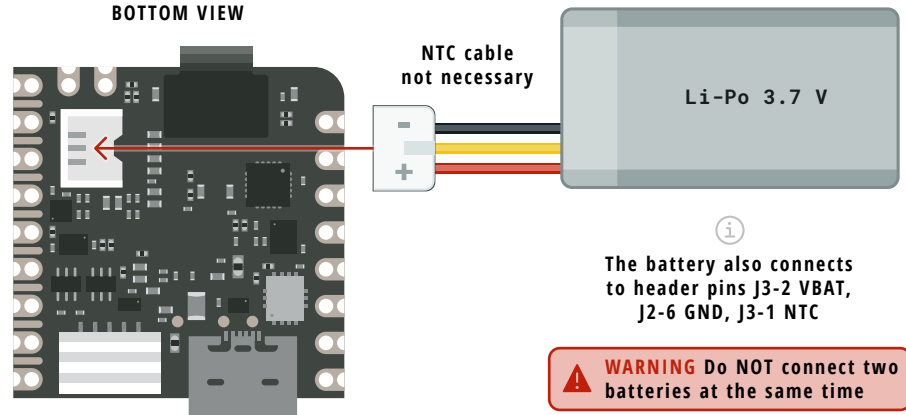
WARNING Do NOT connect two batteries at the same time



Digital Pins voltage level can be forced externally through VDDIO_EXT or internally set to 3.3V or 1.8V by software (to force the voltage externally, the buck converter no. 2 of the PMIC must be shut down)

Analog pins work only at 1.8V

Connect the provided WiFi/Bluetooth Antenna (MOLEX 2.4/5GHz) with the Micro UFL connector on the Nicla Vision



WARNING Do NOT connect two batteries at the same time

Legend:

- Power
- Power Input
- Power Output
- Ground
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)

- LED
- RGB LED
- Other

MAXIMUM LPIOs 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

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

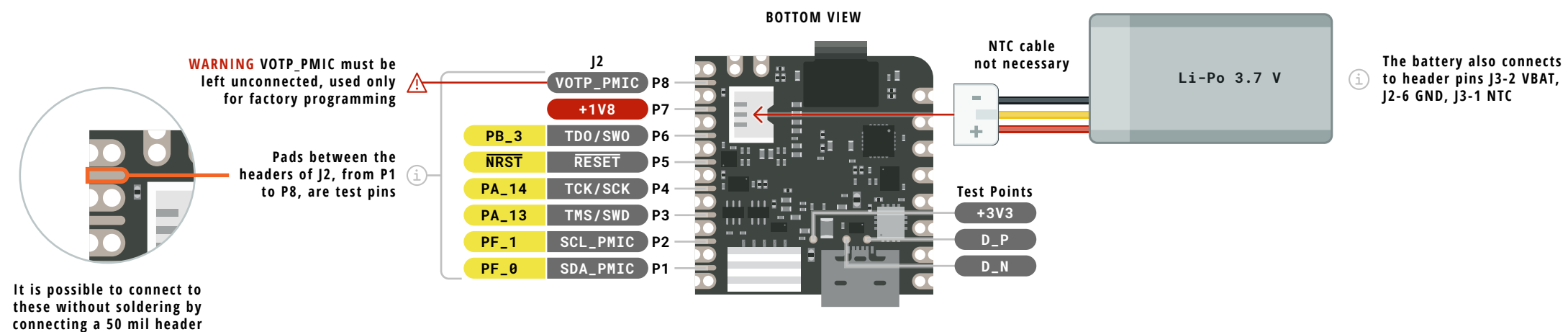
NICLA VISION
ARDUINO

SKU code: ABX00051
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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)

■ LED

■ RGB LED

□ Other

MAXIMUM LPIOs 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

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SKU code: ABX00051

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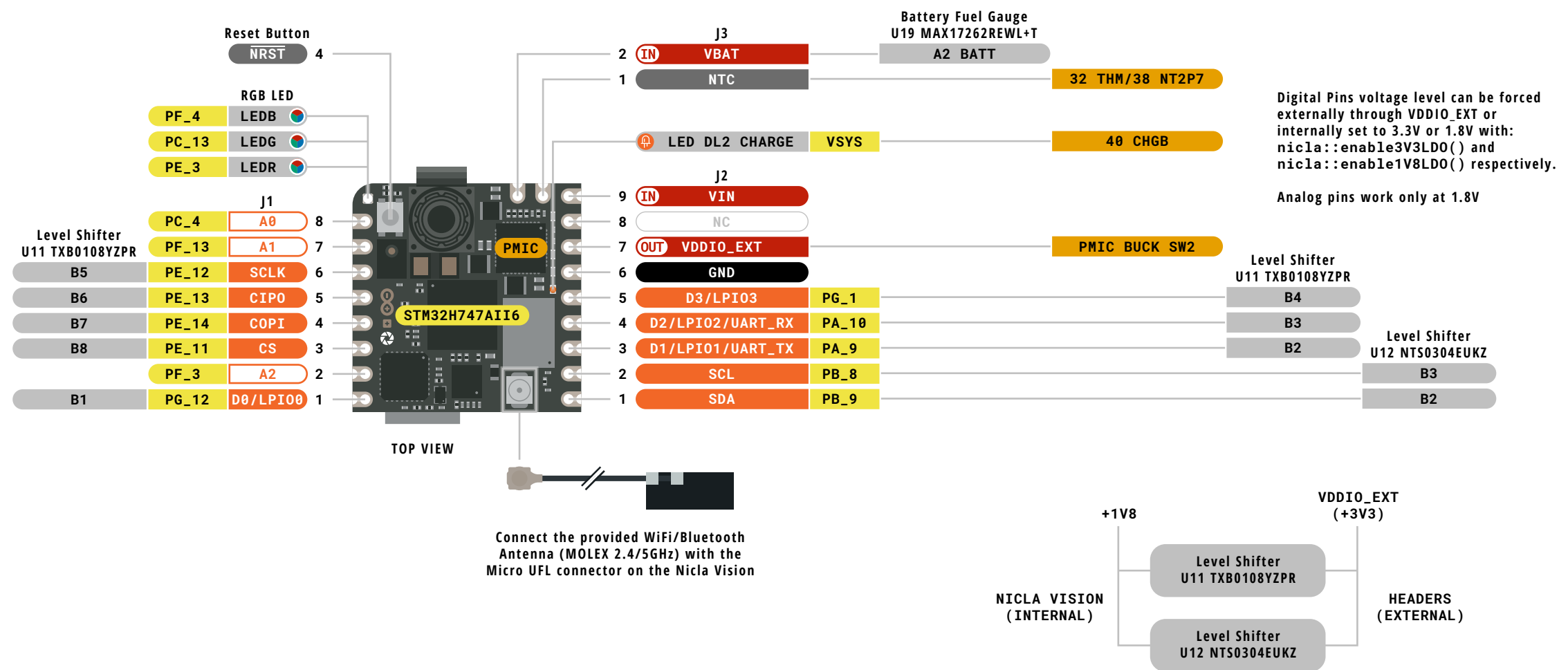
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W A R N I N G !

Advanced Section

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





Legend:

Power

Power Input

Power Output

Ground

GPIO Digital External

Analog External

Main Part

Secondary Part

Internal Component

Other Pins (Reset, System Control, Debugging)

LED

RGB LED

Other

⚠ **MAXIMUM** LPIOs 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

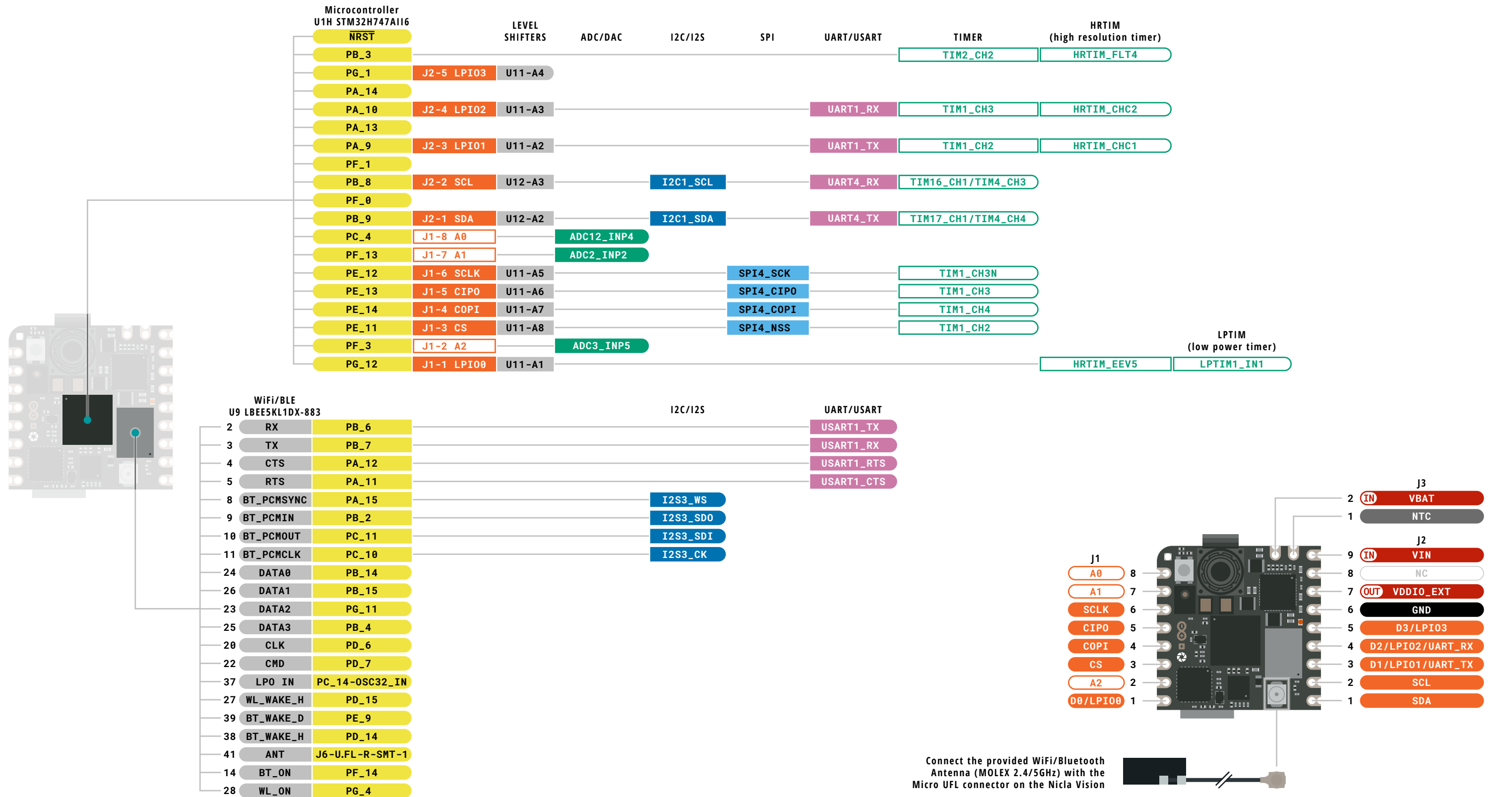
i CIP0/COPI have previously been referred to as MISO/MOSI

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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

LED

RGB LED

Other

MAXIMUM LPI0s 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

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

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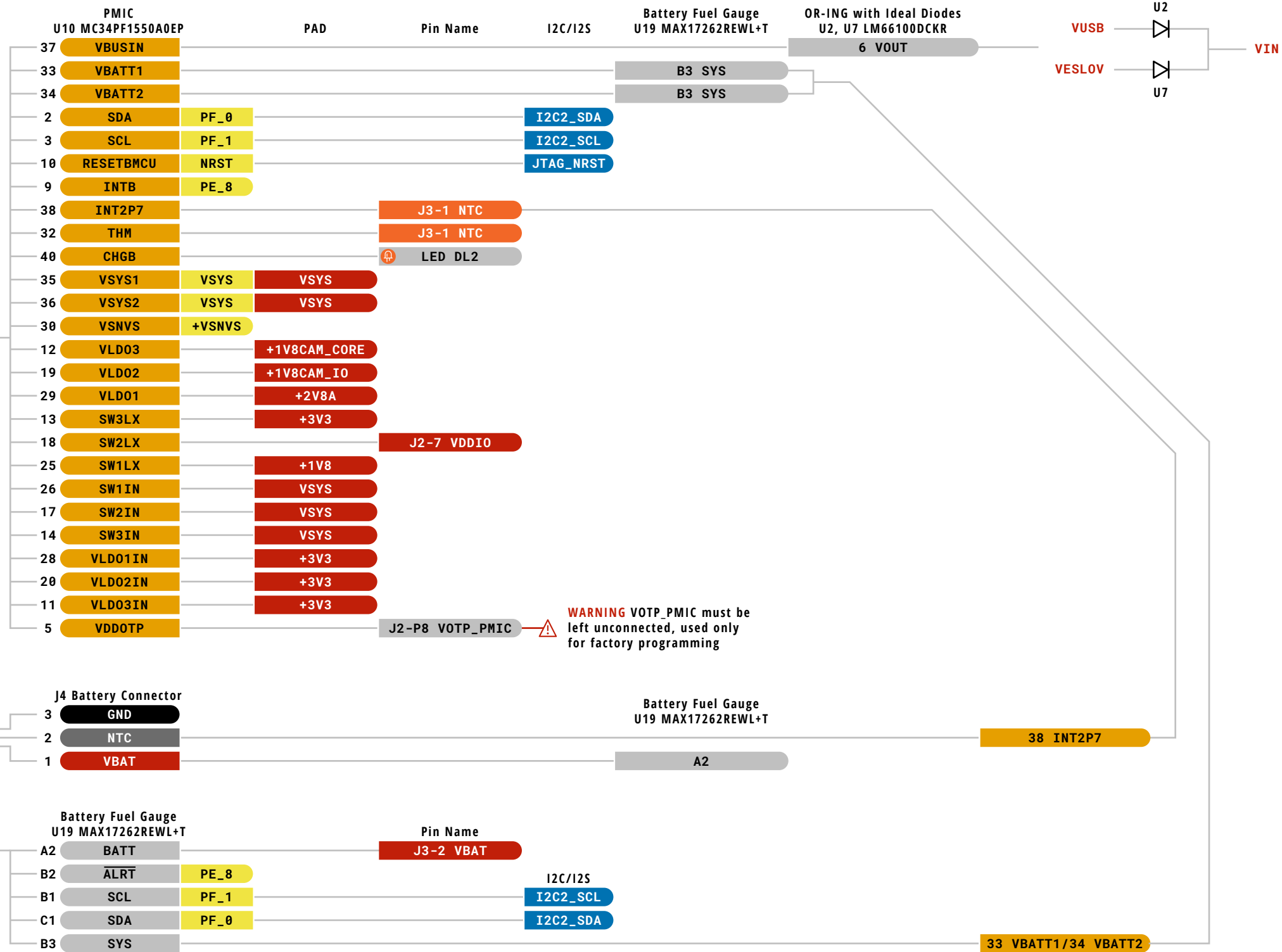
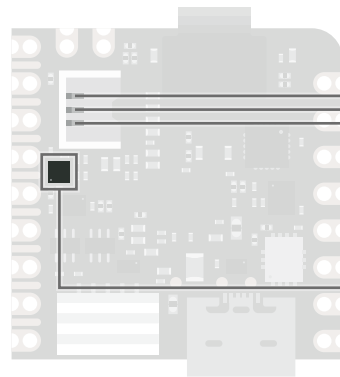
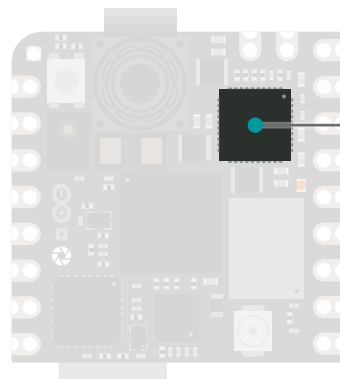
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Legend:

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

MAXIMUM LPIOs 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.

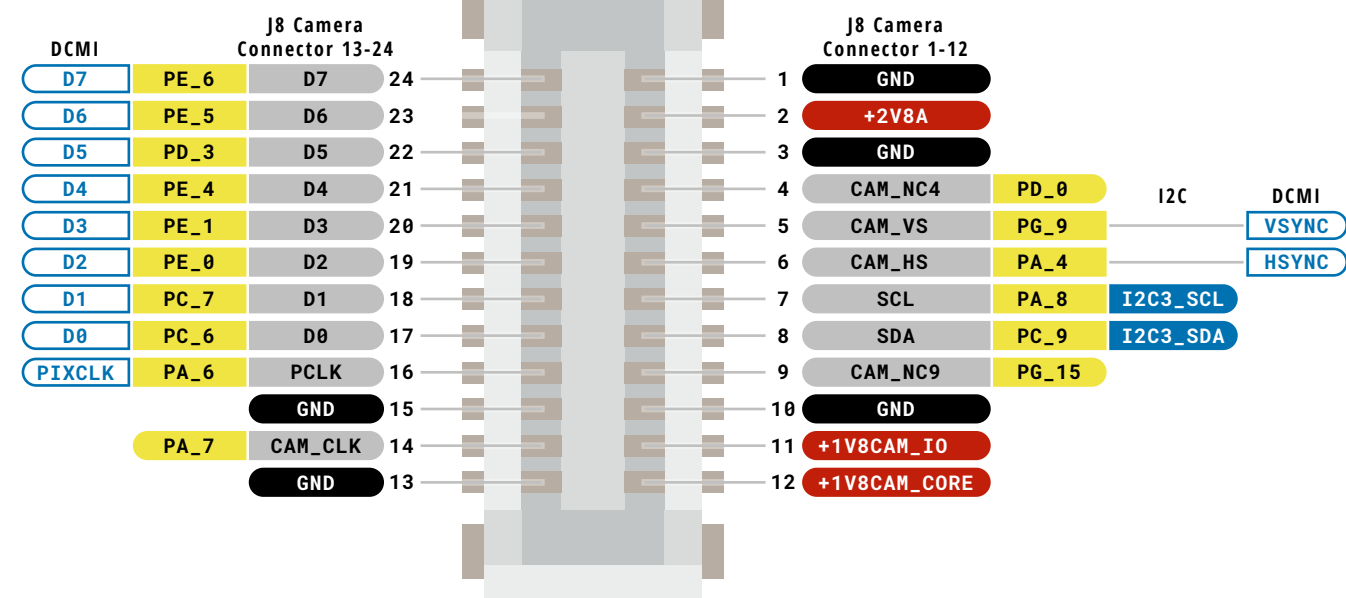
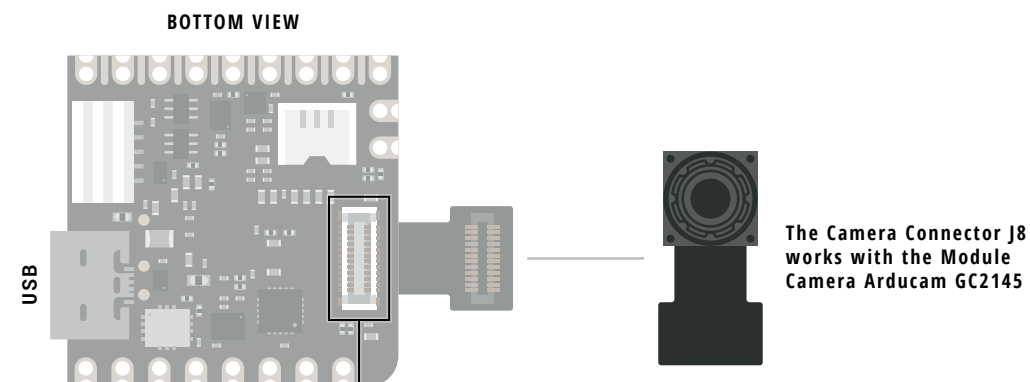
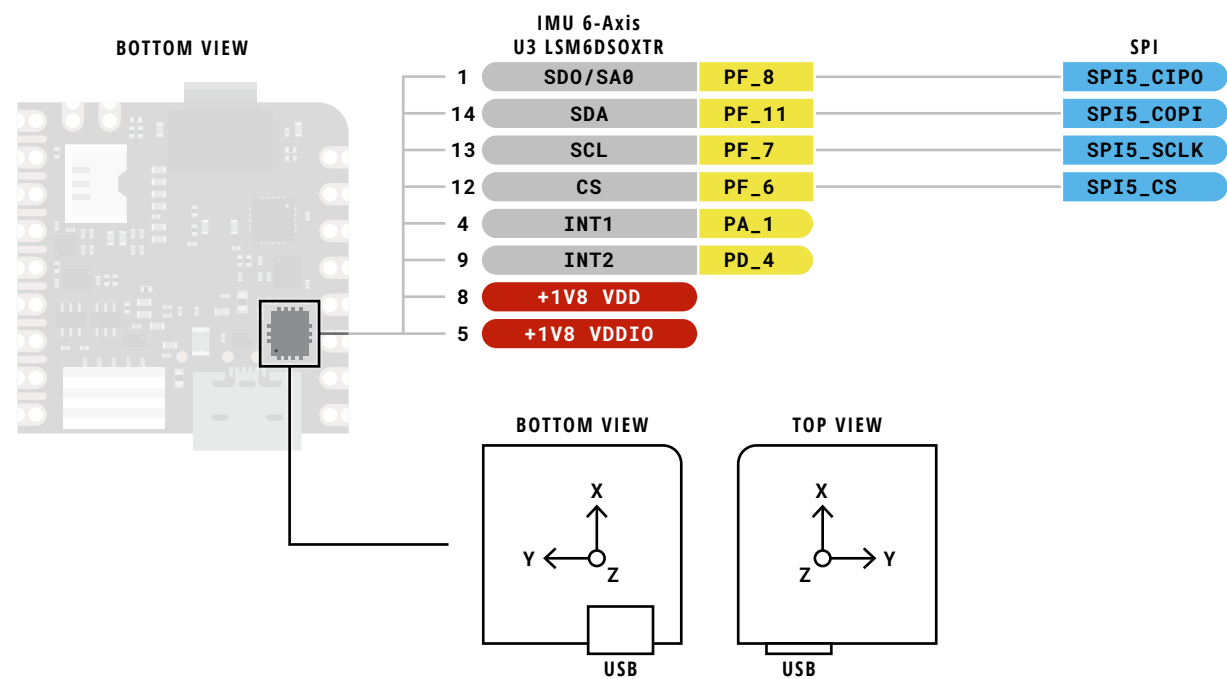
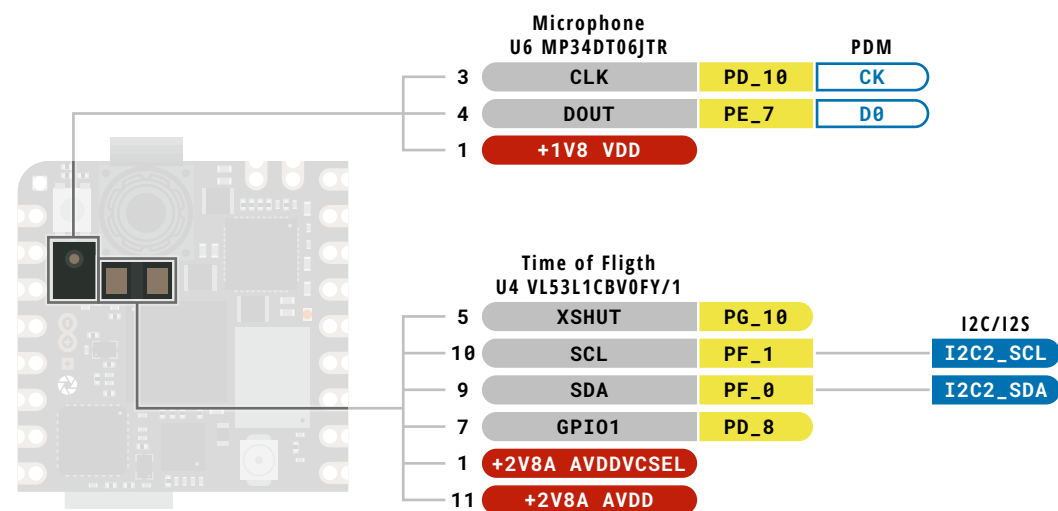
VDDIO_EXT is software programmable between 1.8 and 3.3V

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



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Legend:

Power

Ground

Power Input

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

Default

Default

Default

Default

LED

RGB LED

Other

MAXIMUM LPIOs 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

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

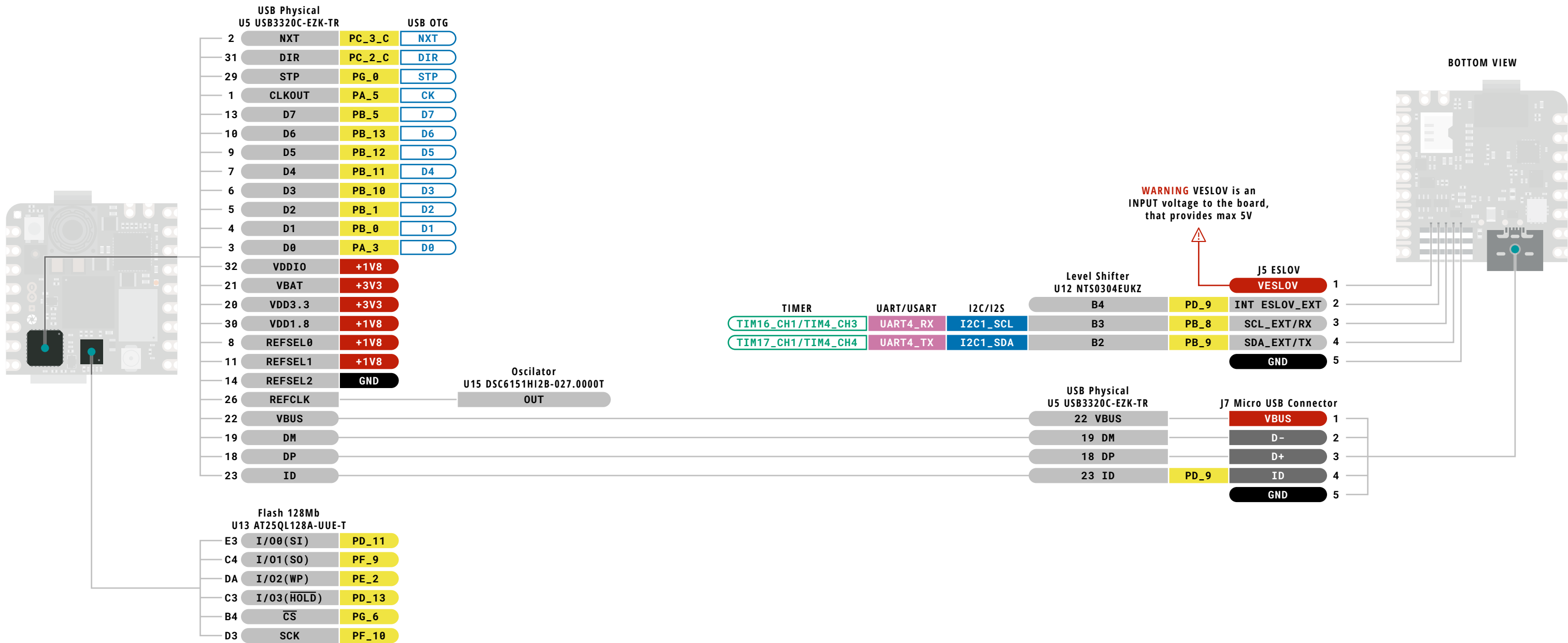
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Legend:

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

Default

Default

LED

RGB LED

Other

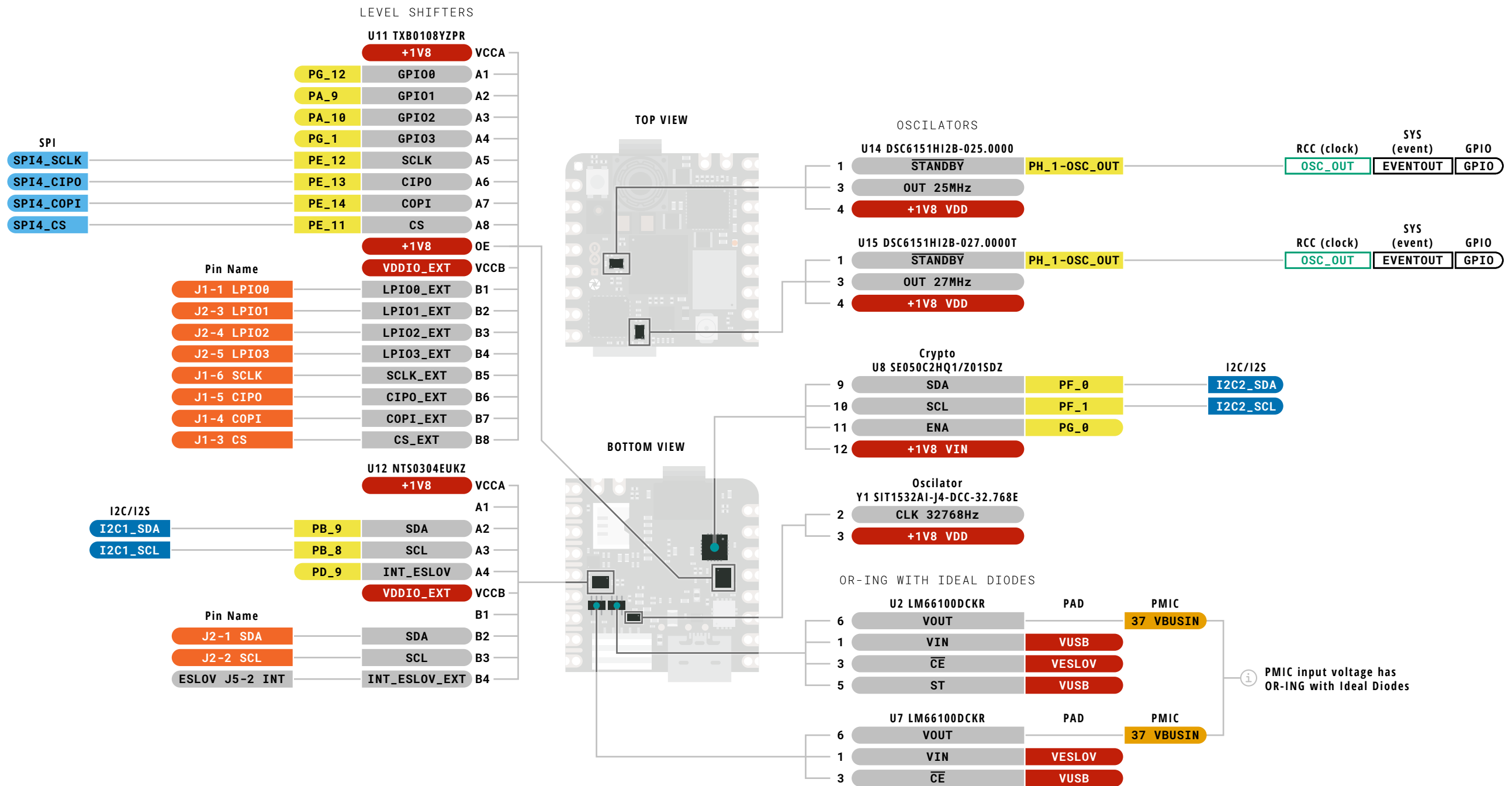
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VDDIO_EXT is software programmable between 1.8 and 3.3V

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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

LED

RGB LED

Other

MAXIMUM LPI0s 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

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

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