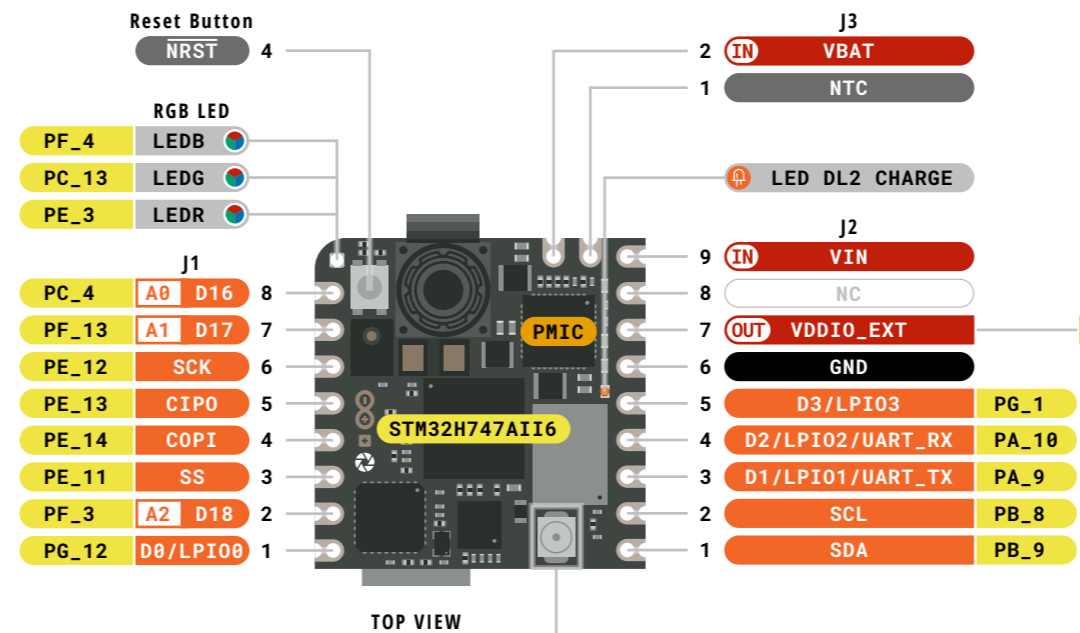


The battery also connects with the Battery Connector J4 on the bottom of the board

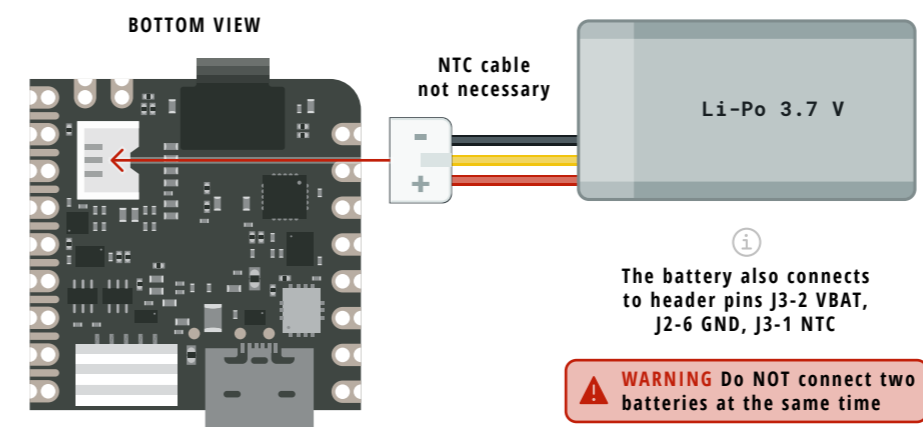
WARNING Do NOT connect two batteries at the same time



Digital Pins voltage level can be forced externally through VDDIO_EXT or internally set to 3.3V or 1.8V with:
`nicla::enable3V3LDO()` and
`nicla::enable1V8LDO()` respectively.

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

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

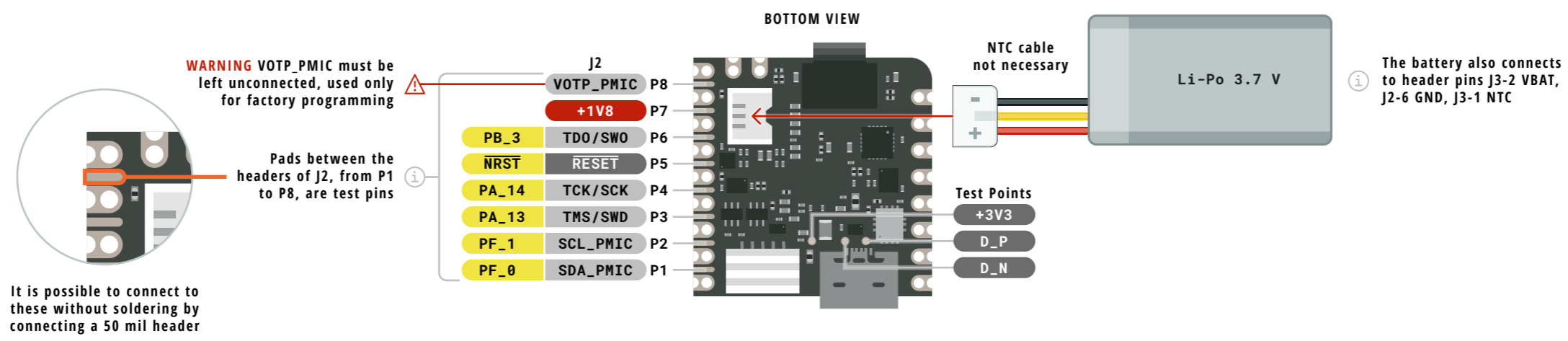
i CIP0/COPI have previously been referred to as MISO/MOSI

ARDUINO **NICLA VISION**

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Legend:

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

- 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.
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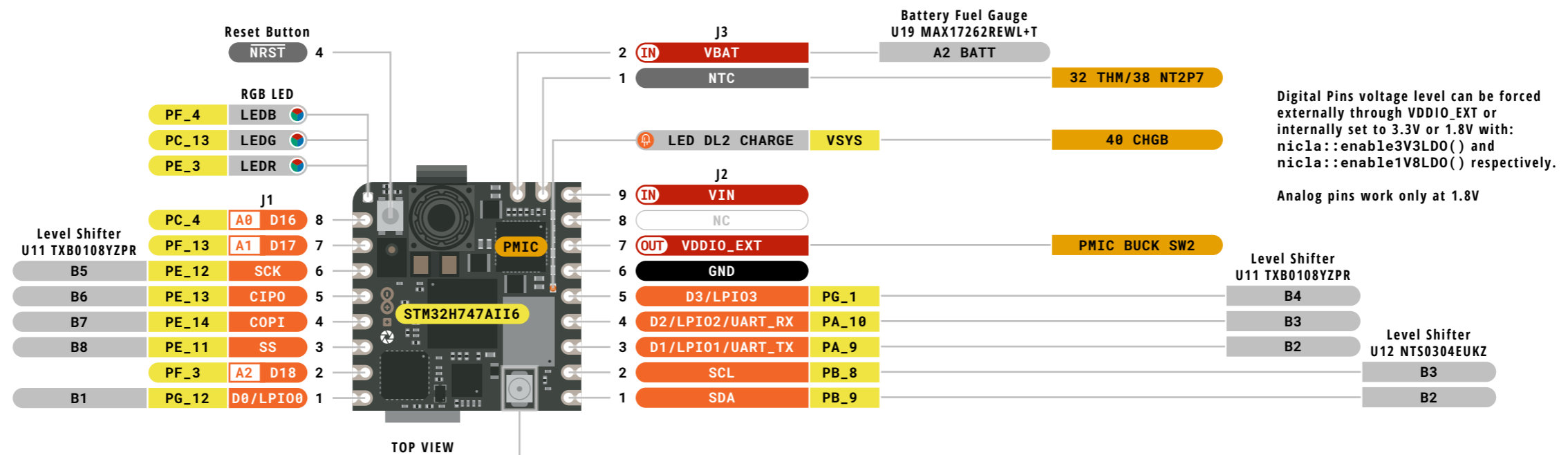
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WARNING!

Advanced Section

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

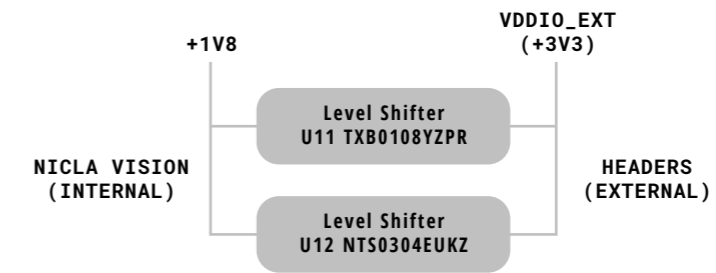




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 nicla::enable3V3LDO() and
 nicla::enable1V8LDO() respectively.

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



Legend:

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

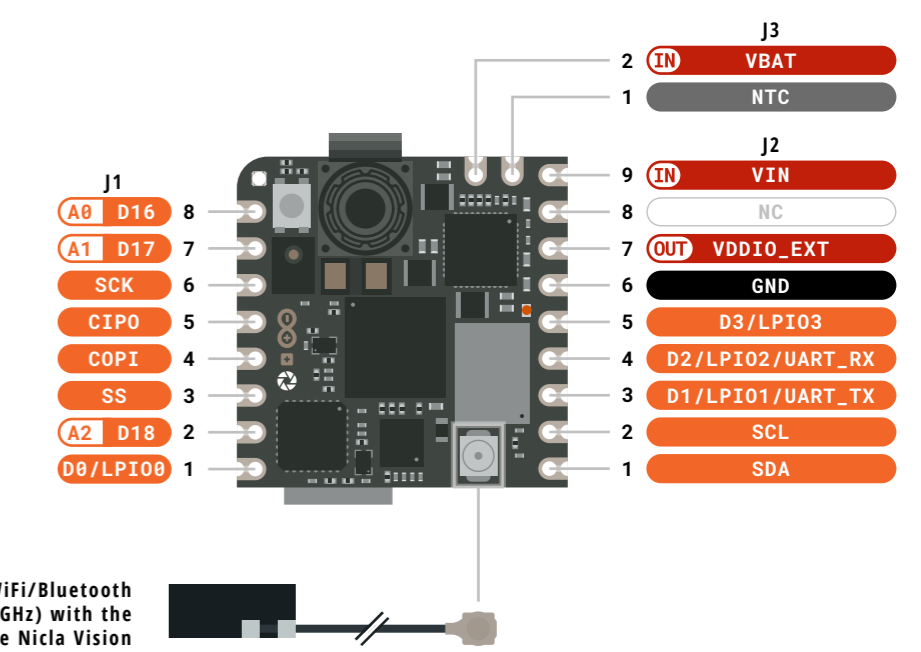
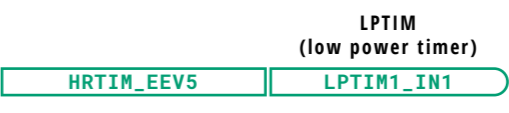
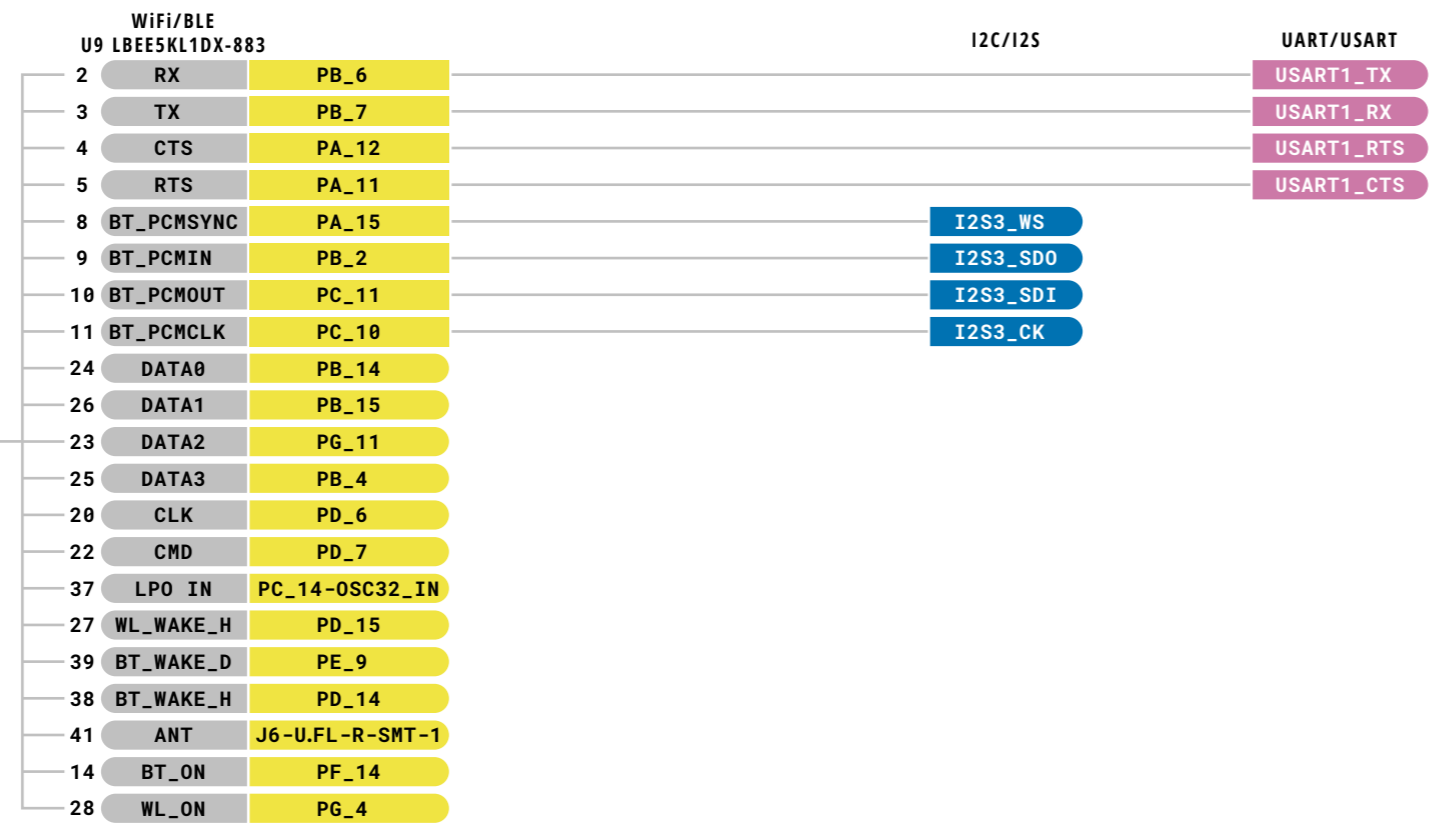
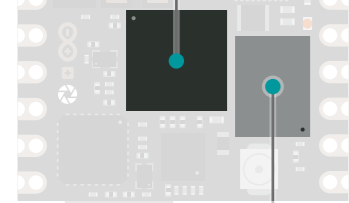
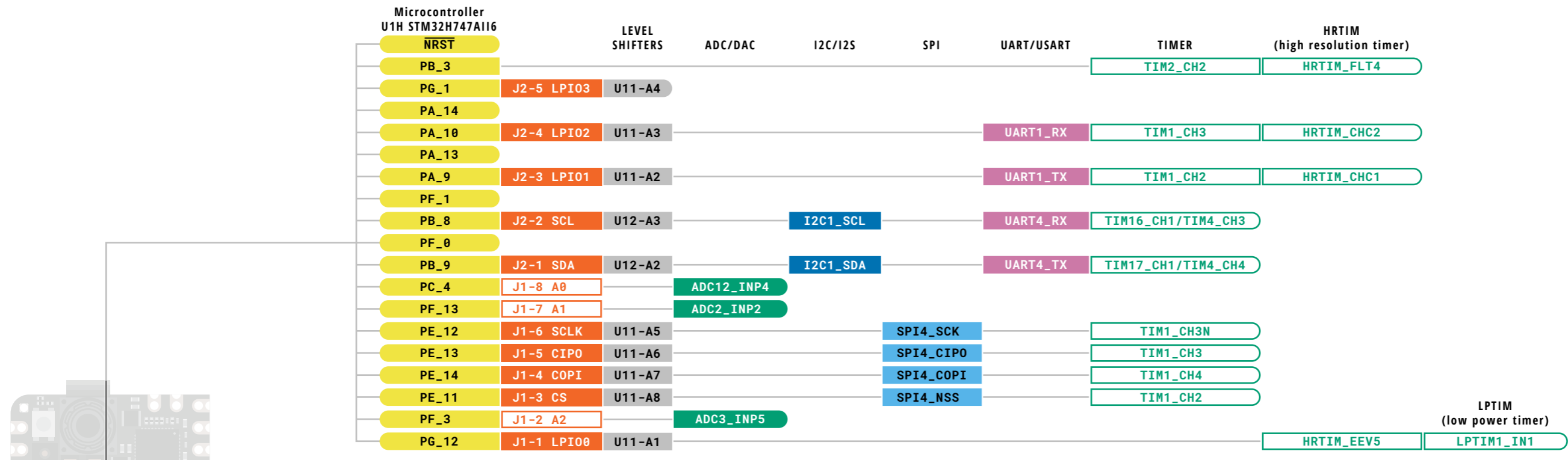
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Connect the provided WiFi/Bluetooth Antenna (MOLEX 2.4/5GHz) with the Micro UFL connector on the Nicla Vision

Legend:

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

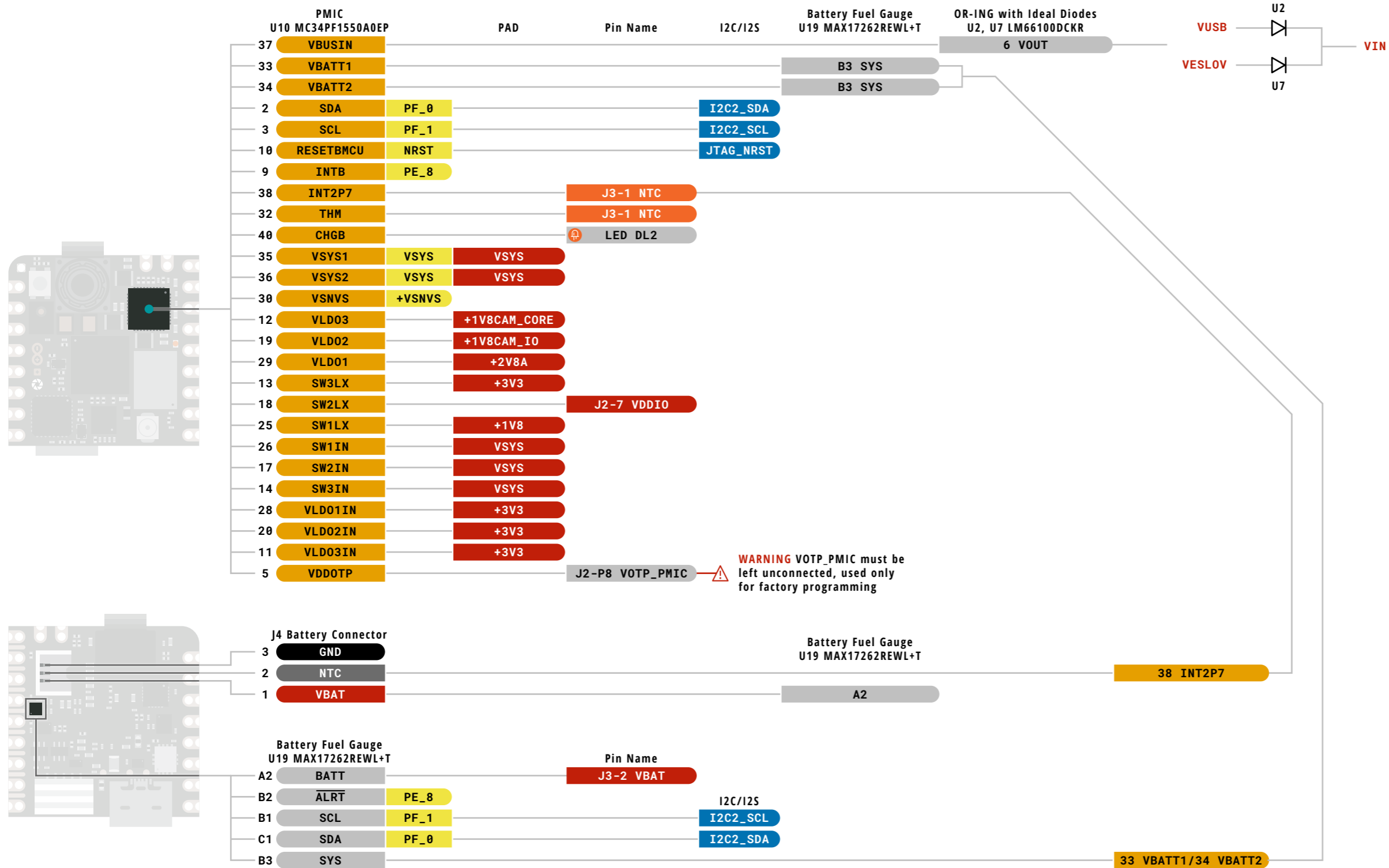
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Legend:

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

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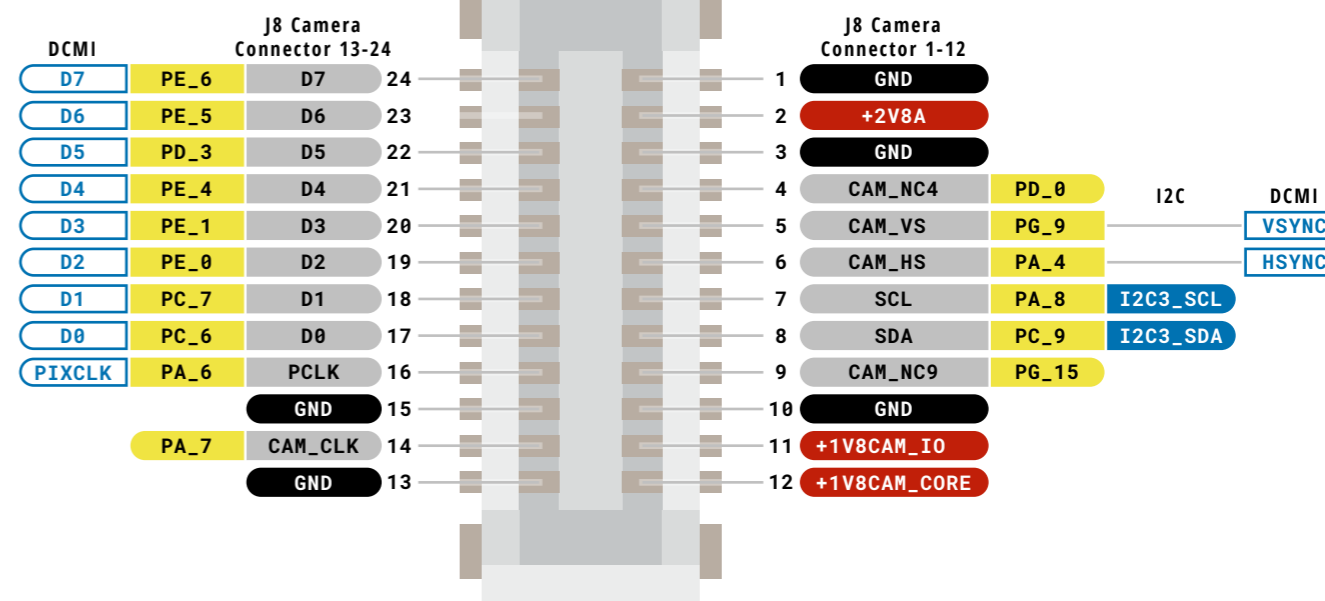
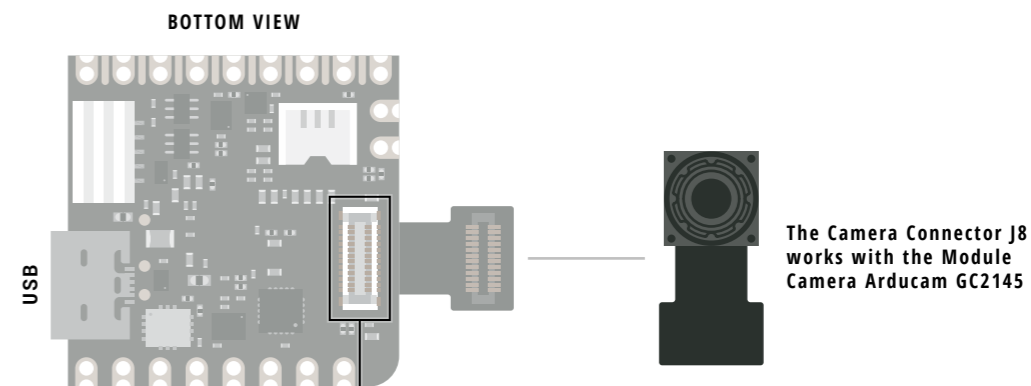
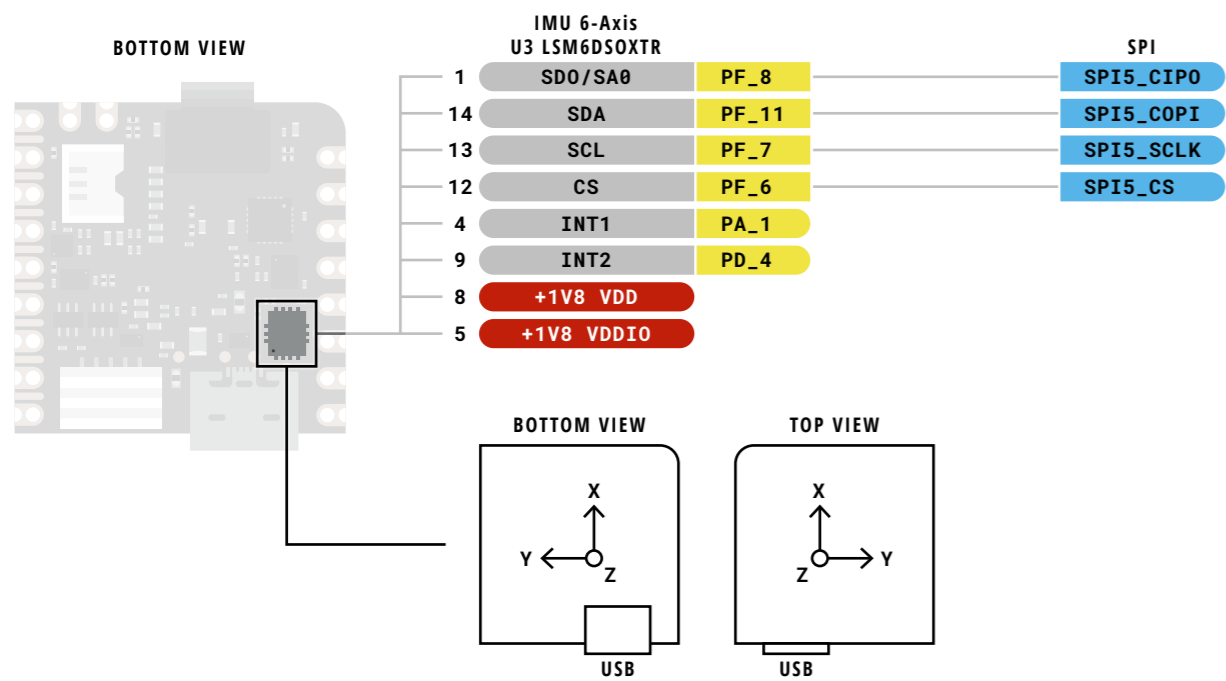
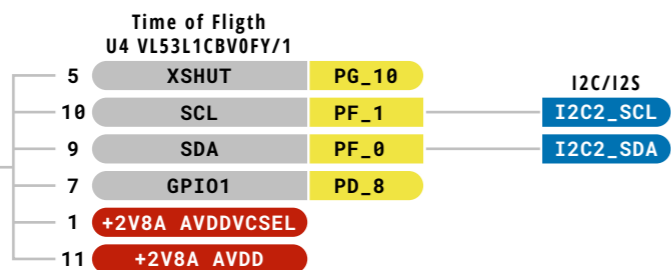
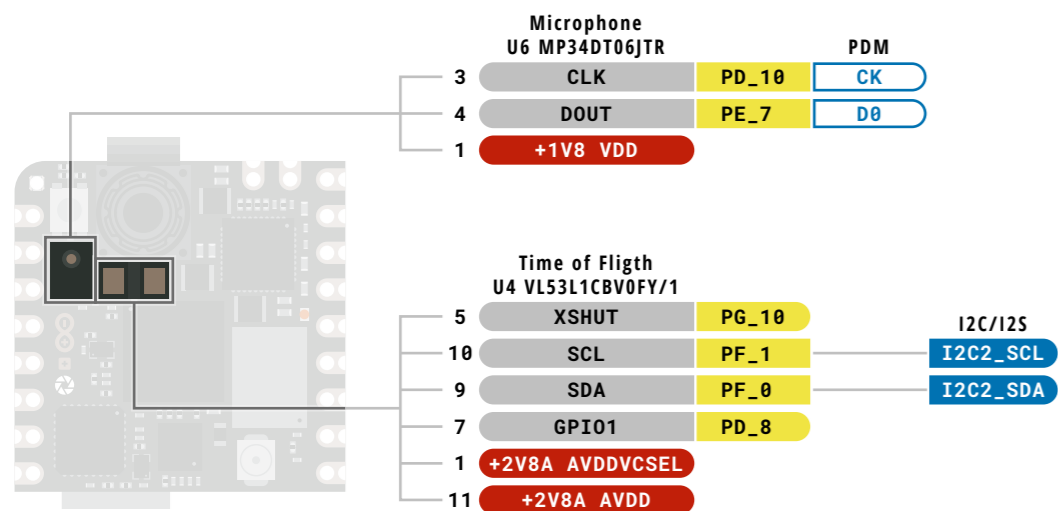
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Legend:

- 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
- D Default
- D Default
- D 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

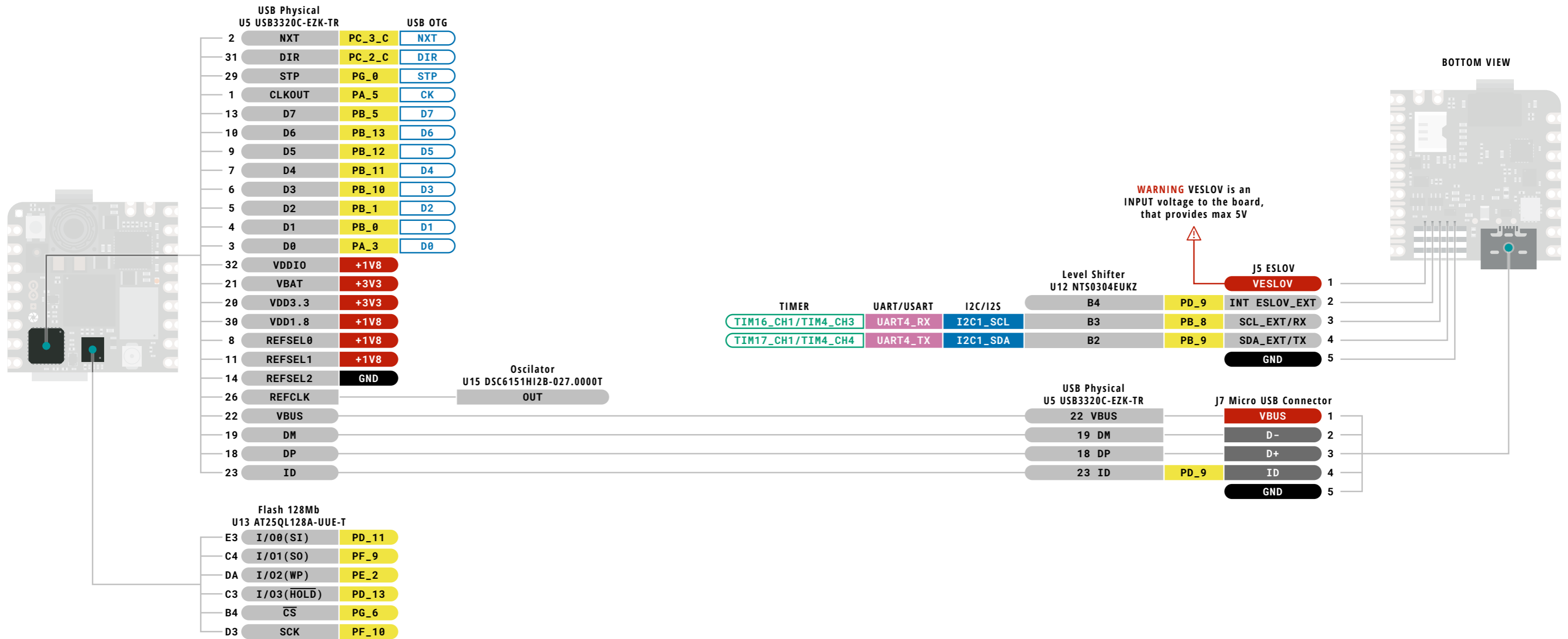
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Legend:

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


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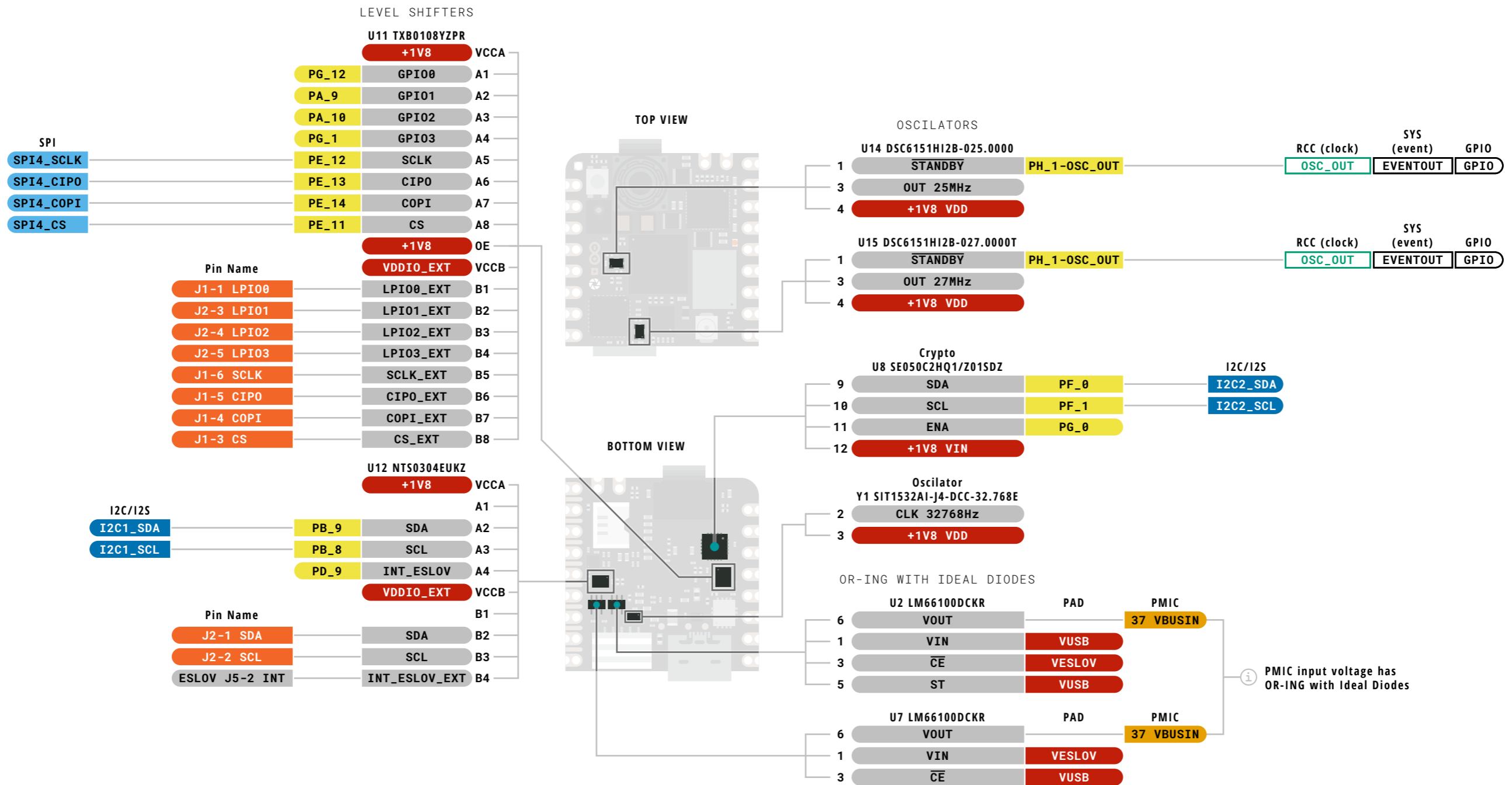
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MAXIMUM LPI0s are driven by bidirectional translators powered by VDDIO_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.
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