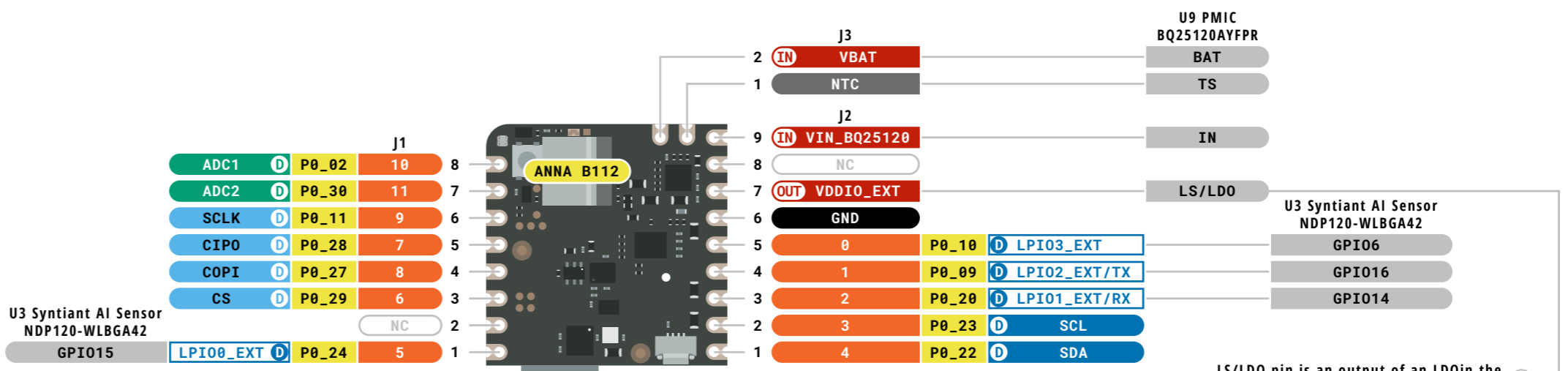


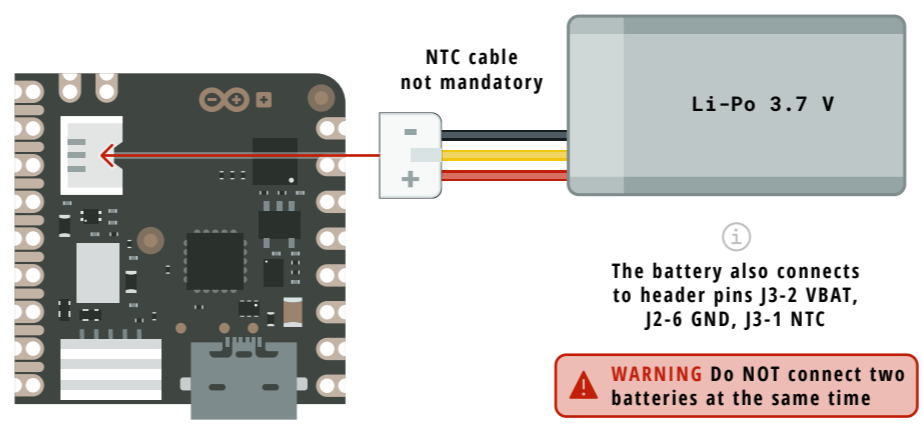
TOP VIEW

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



TOP VIEW



BOTTOM VIEW

LS/LDO pin is an output of an LDO in the PMIC, it is enabled by default at 3.3V

If LS/LDO pin is enabled, it is possible to configure the Nicla to work at 3.3V or 1.8V; depending on the configuration the maximum input voltage can be 3.3V or 1.8V

Disabling the LS/LDO pin output of the PMIC it is possible to power the level translators with the VDDIO_EXT pin at a different voltage rather than 3.3V

Legend:

- Power
- GPIO Digital External
- I2C
- LED
- Power Input
- Analog External
- SPI
- RGB LED
- Power Output
- Main Part
- UART/USART
- Other SERIAL Communication
- Other
- Ground
- Secondary Part
- Default
- Default
- Default
- Default
- Internal Component
- 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

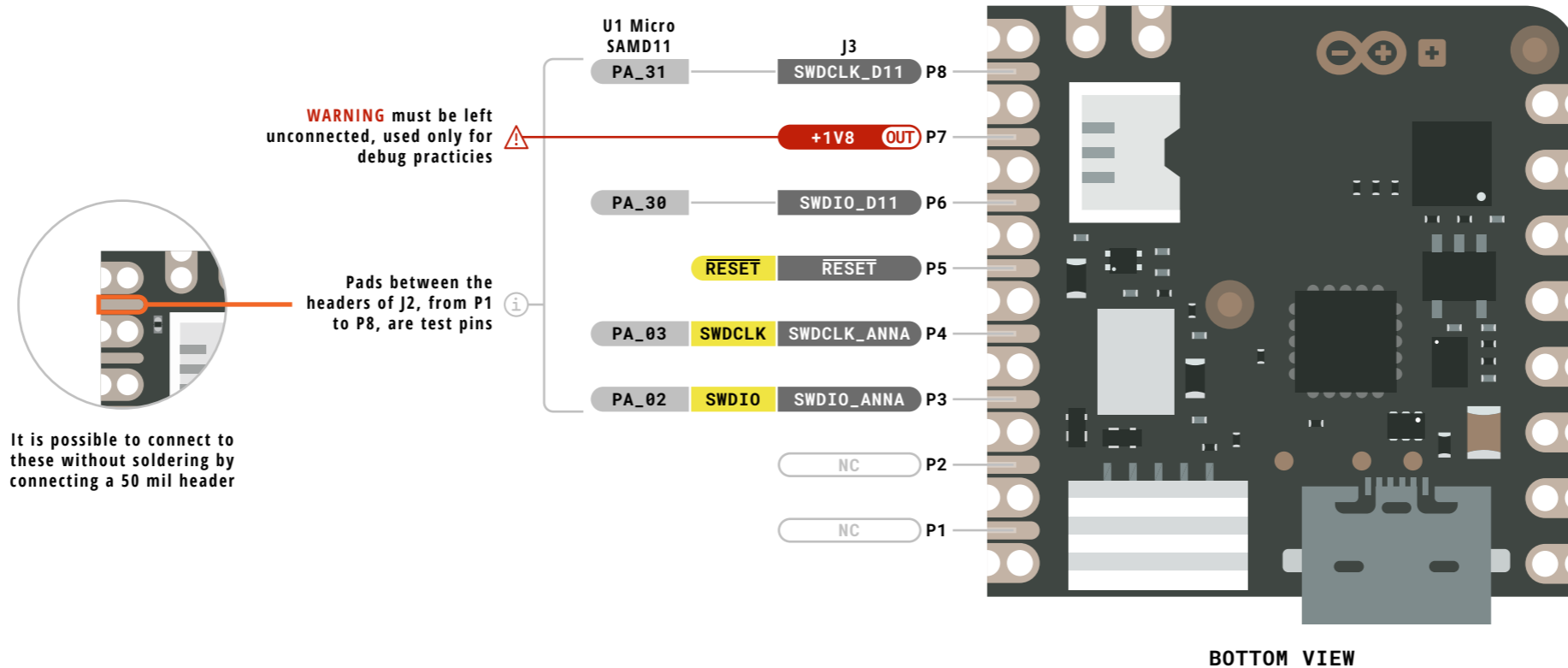
NICLA VOICE

ARDUINO

SKU code: ABX00061
Full Pinout - Page 1 of 7
Last update: 7 Oct, 2022

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BOTTOM VIEW


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



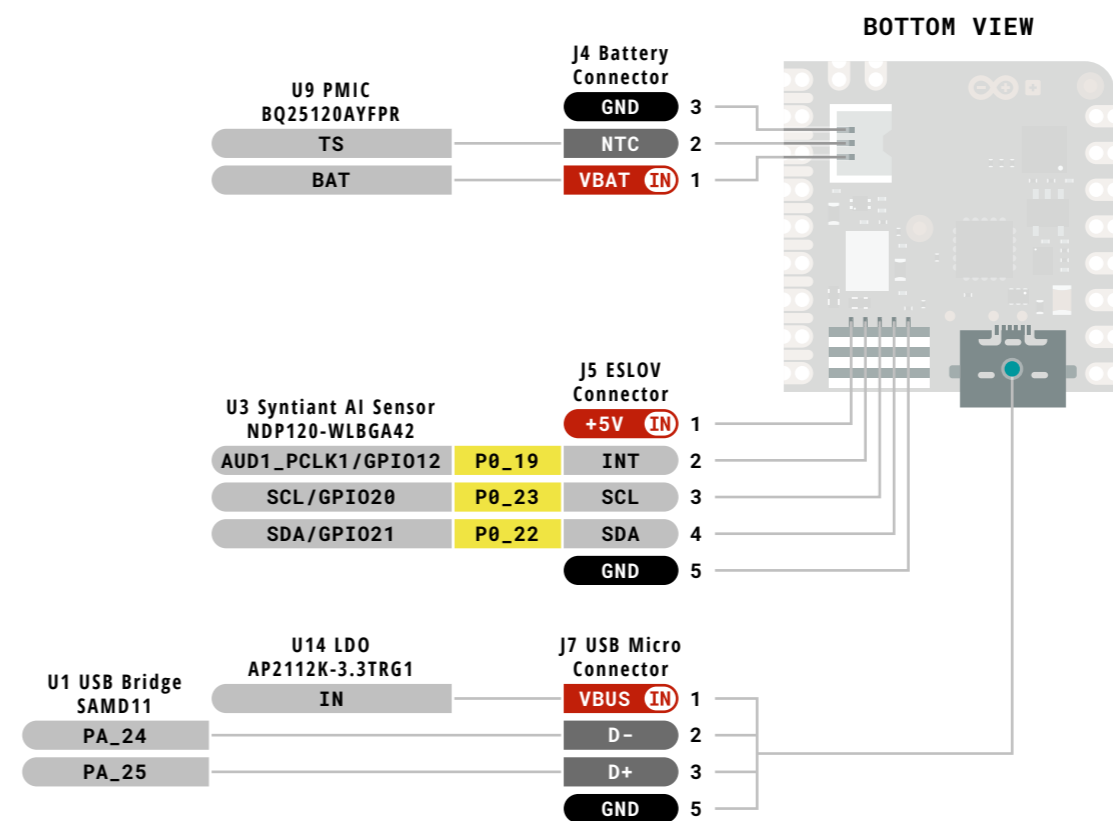
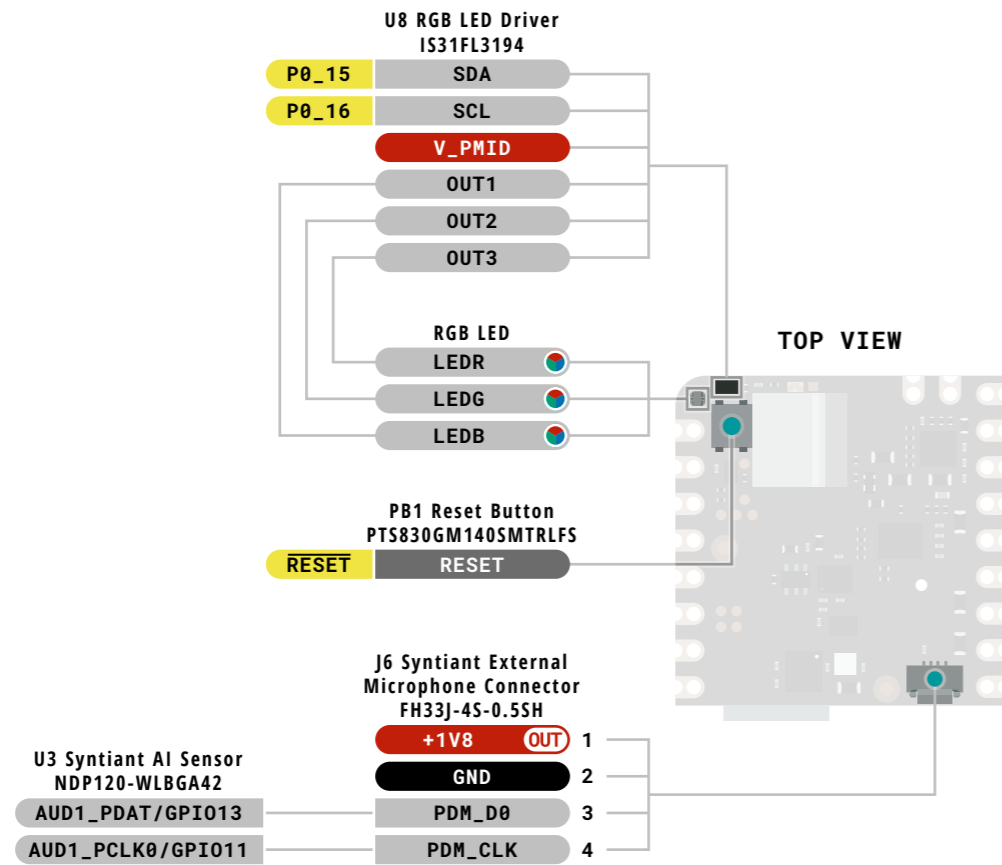
NICLA VOICE
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Legend:

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

ARDUINO **NICLA VOICE**

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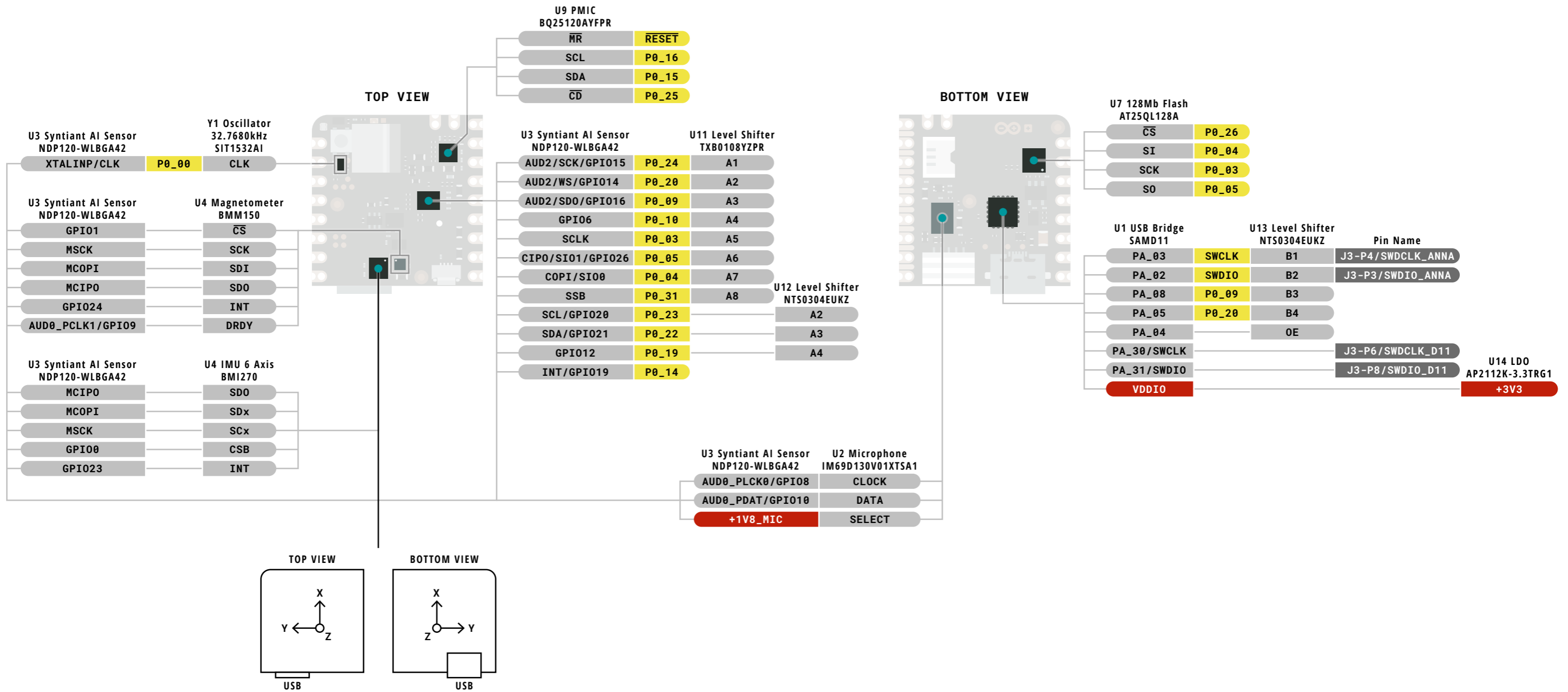
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WARNING!

Advanced Section

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






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




NICLA VOICE

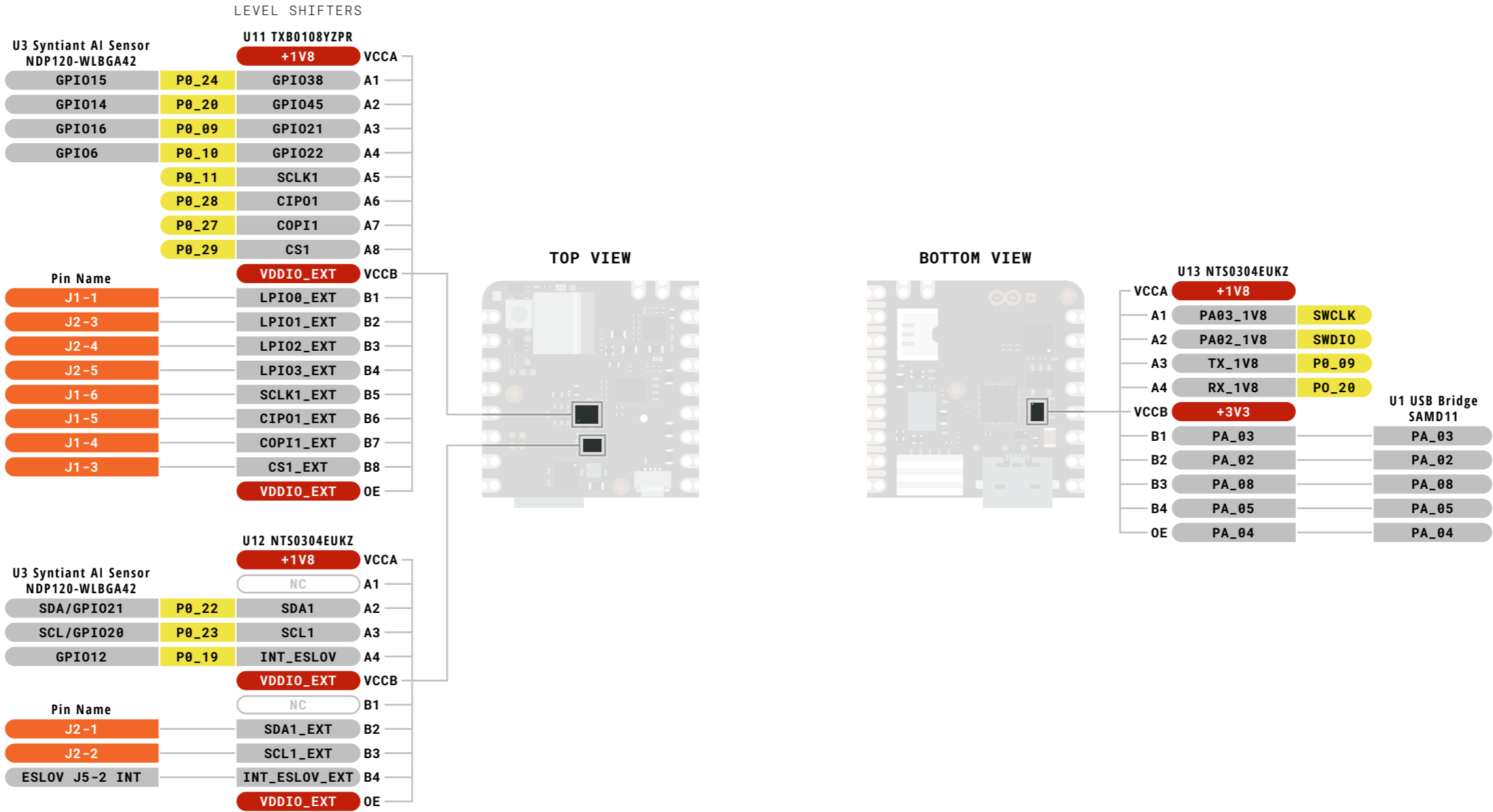
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Legend:

■ 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 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

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

NICLA VOICE

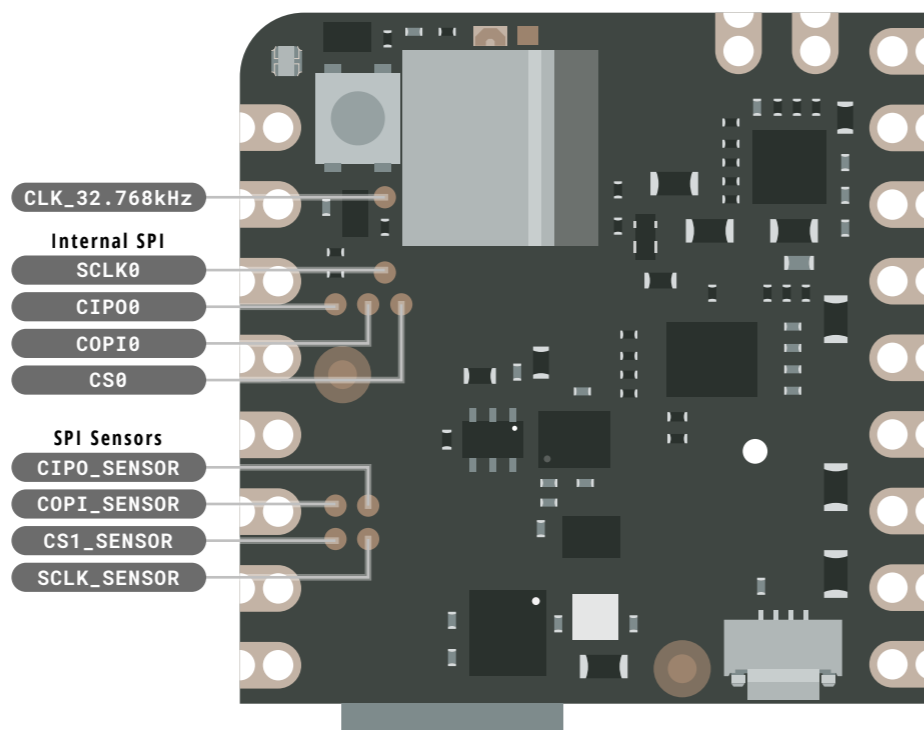
ARDUINO

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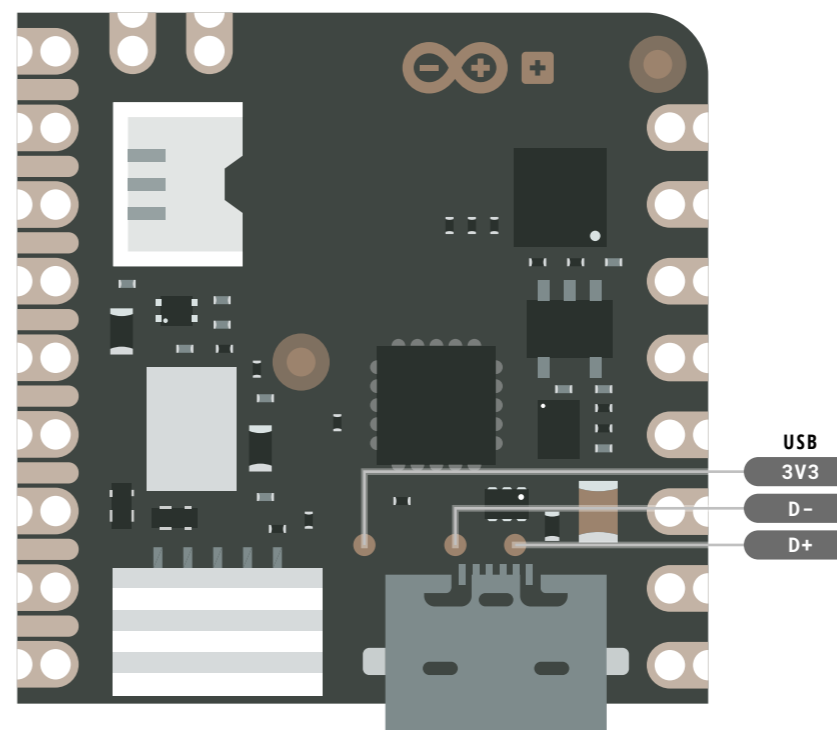
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Test Points



TOP VIEW



BOTTOM VIEW

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

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



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