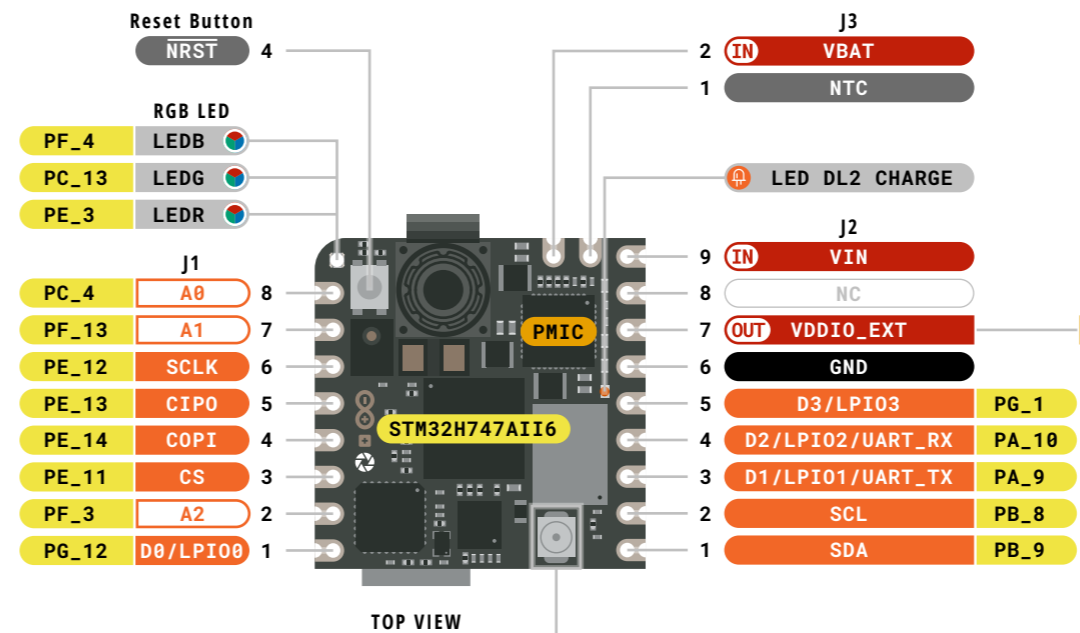


TOP VIEW

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

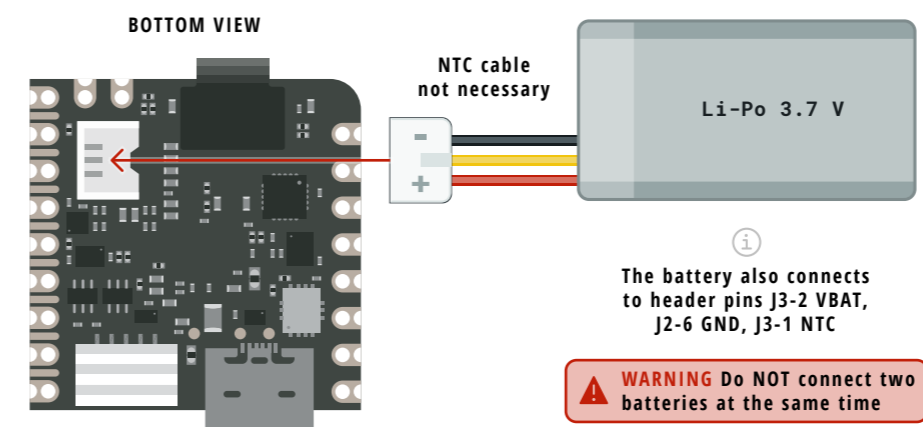
WARNING Do NOT connect two batteries at the same time



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	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 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

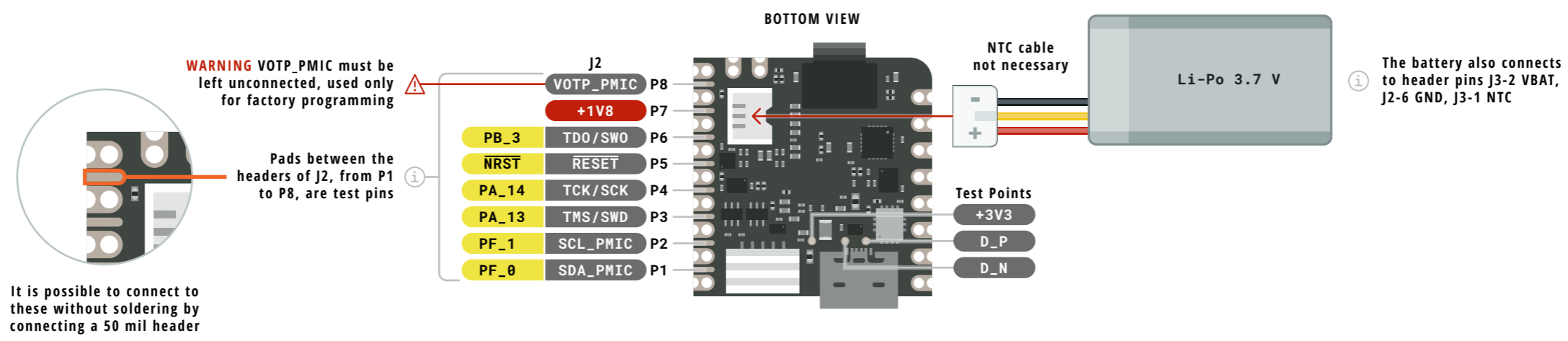
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SKU code: ABX00051
Full Pinout - Page 1 of 9
Last update: 14 Dec, 2022

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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)
- 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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NICLA VISION

SKU code: ABX00051
Full Pinout - Page 2 of 9
Last update: 14 Dec, 2022

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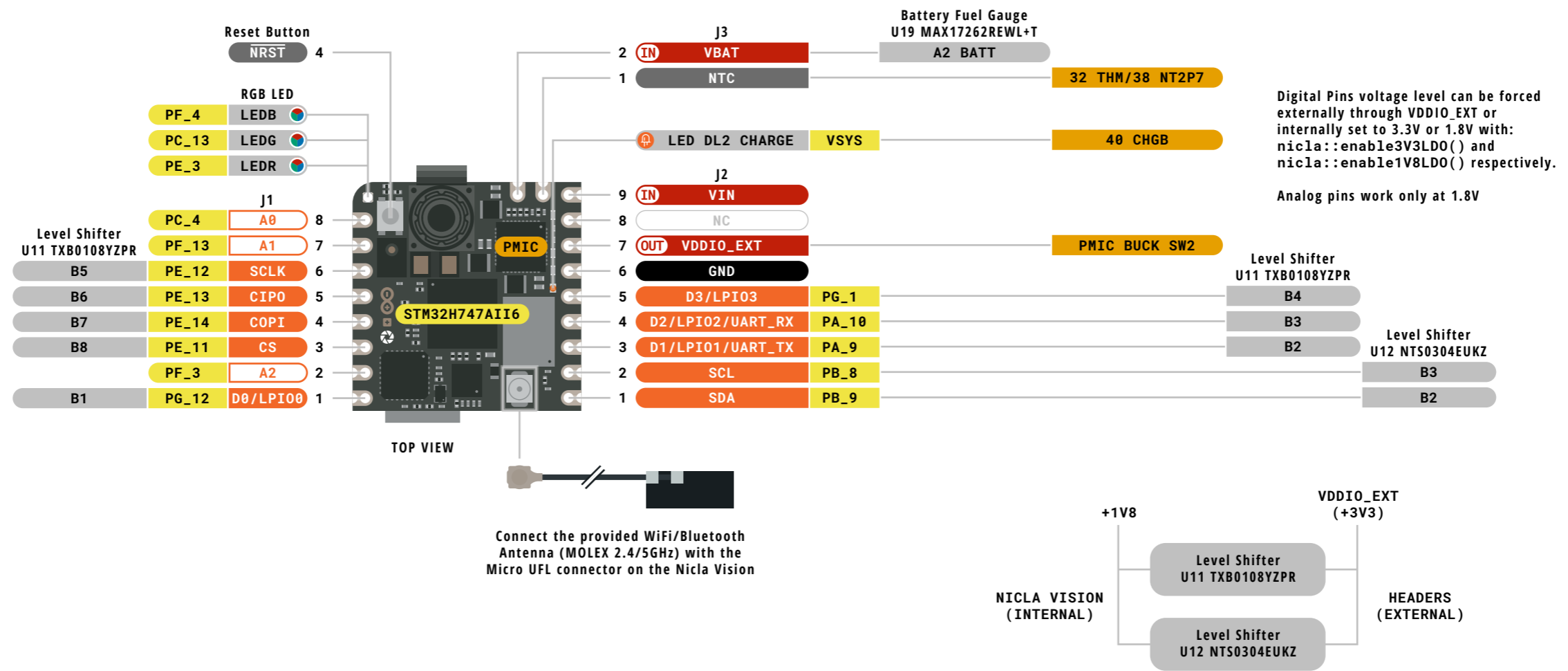
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WARNING!

Advanced Section

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






Legend:

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


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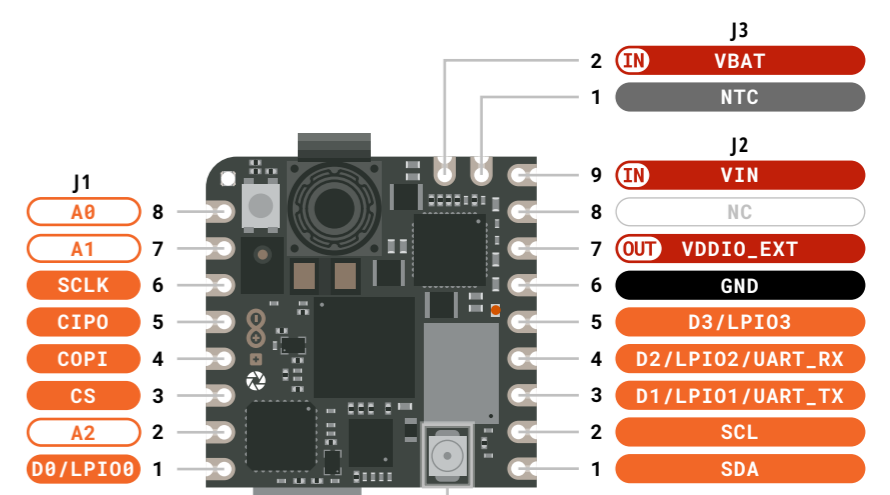
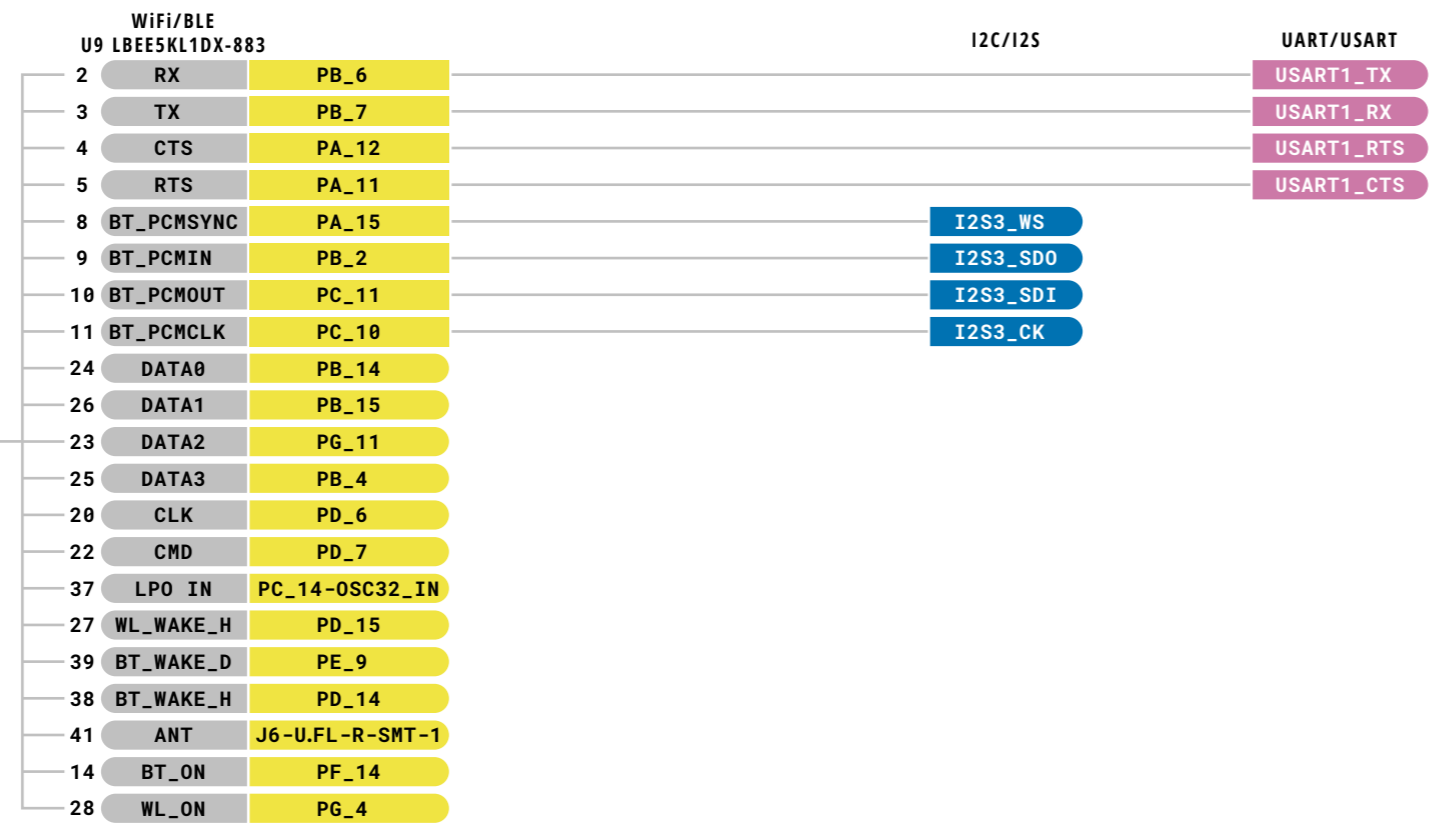
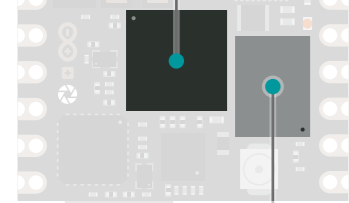
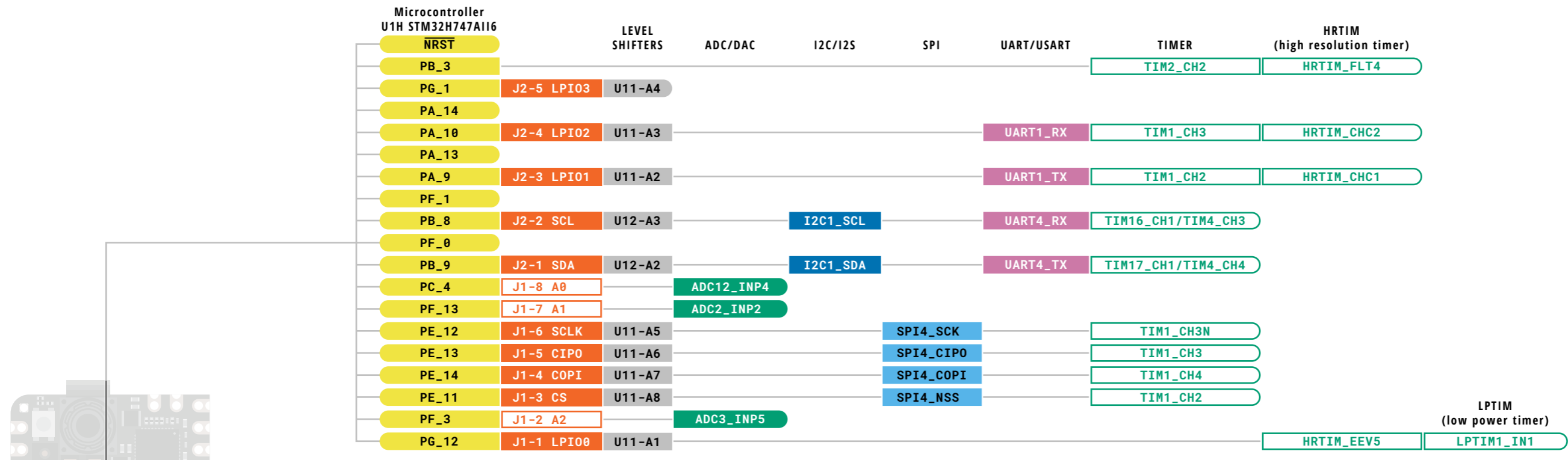
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SKU code: ABX00051
Full Pinout - Page 4 of 9
Last update: 14 Dec, 2022

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

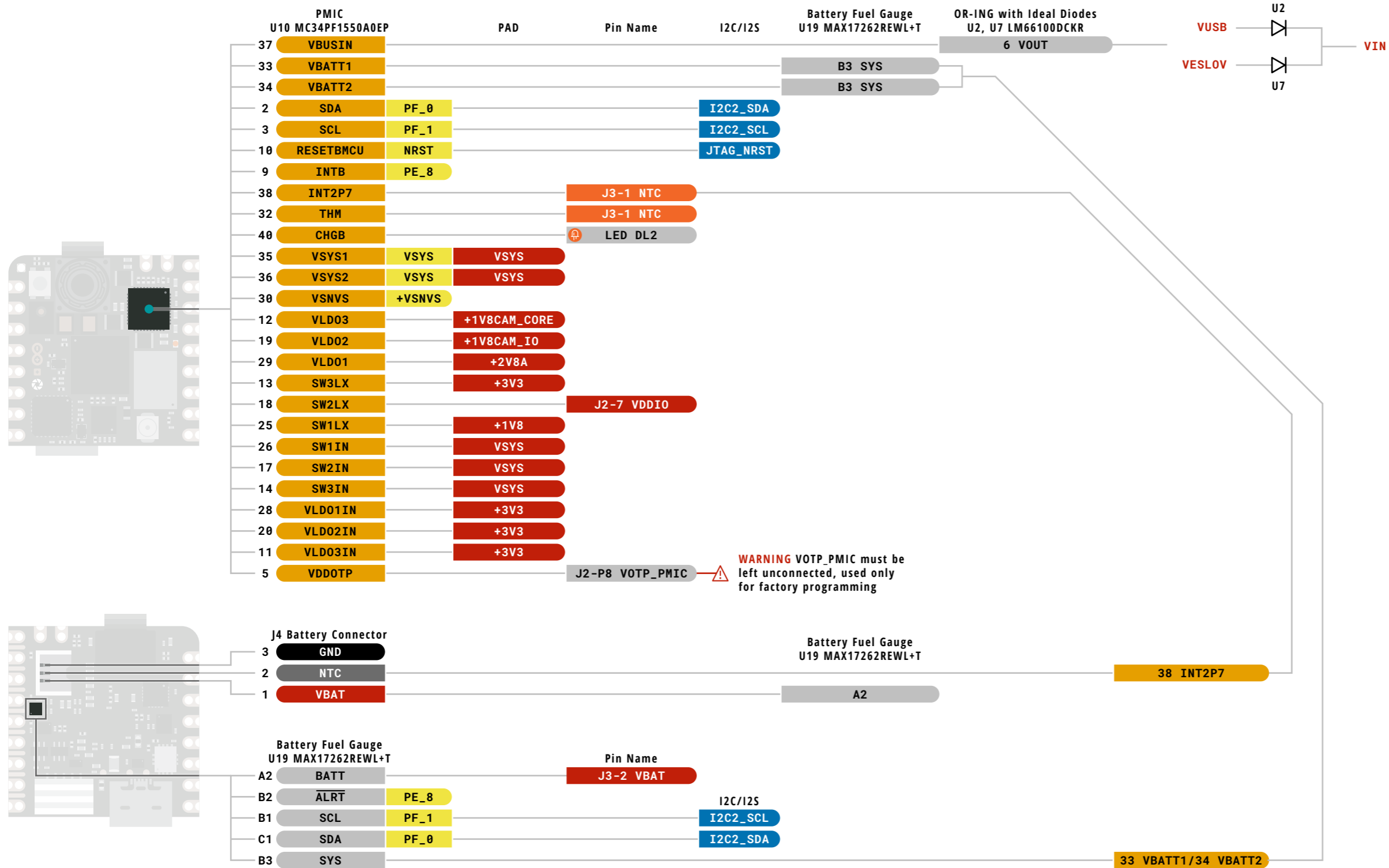
! **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.
VDDIO_EXT is software programmable between 1.8 and 3.3V

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NICLA VISION

SKU code: ABX00051
Full Pinout - Page 5 of 9
Last update: 14 Dec, 2022

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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
- 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

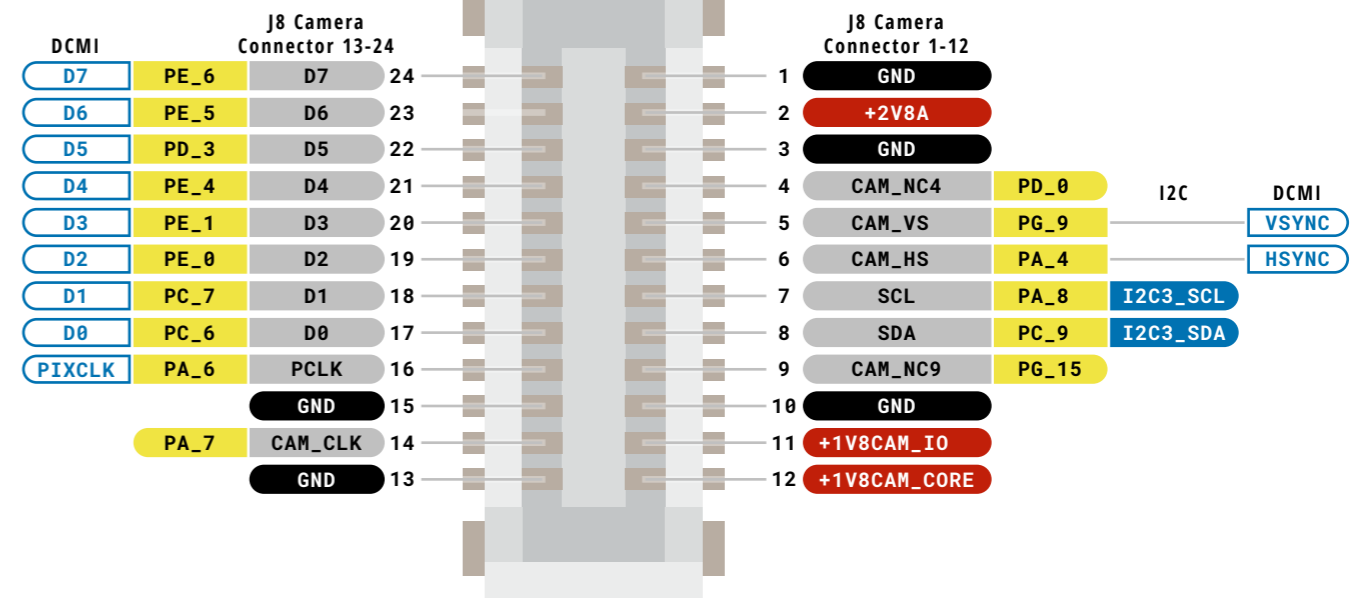
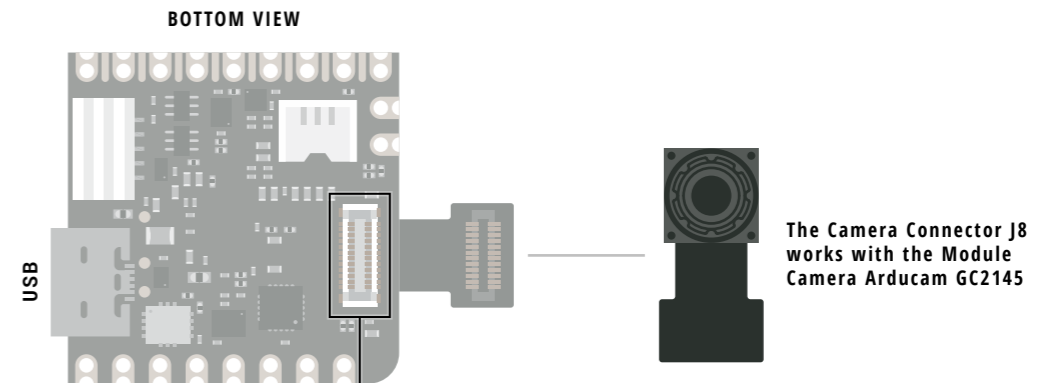
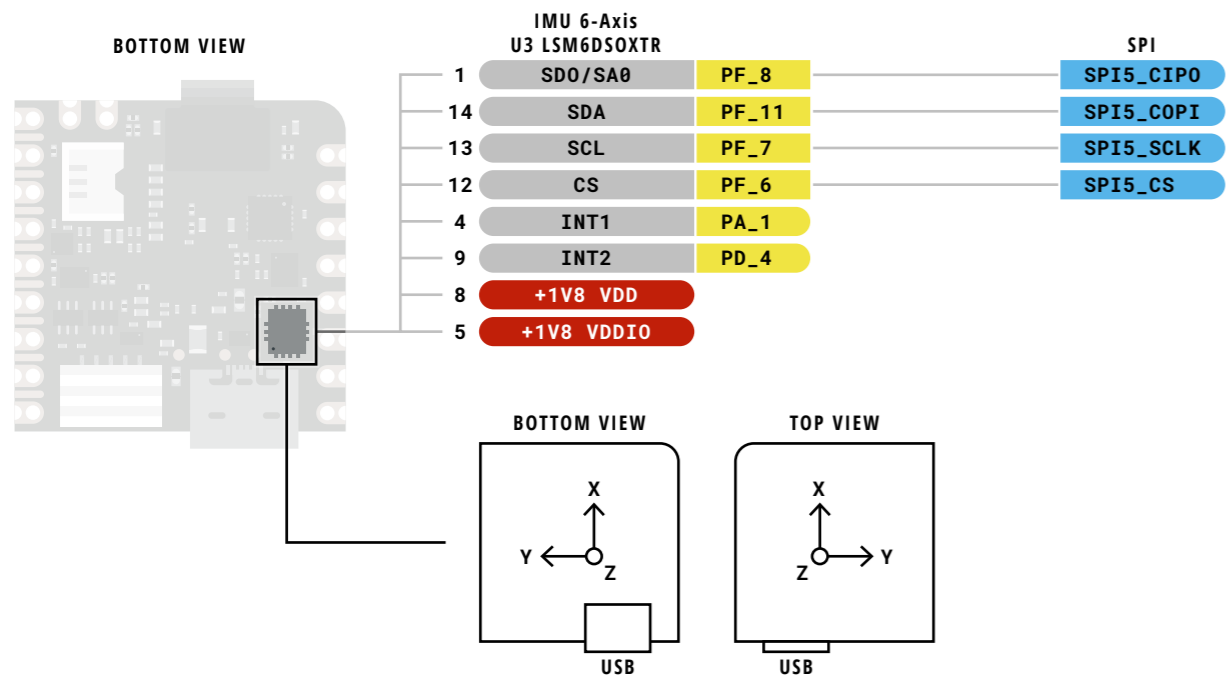
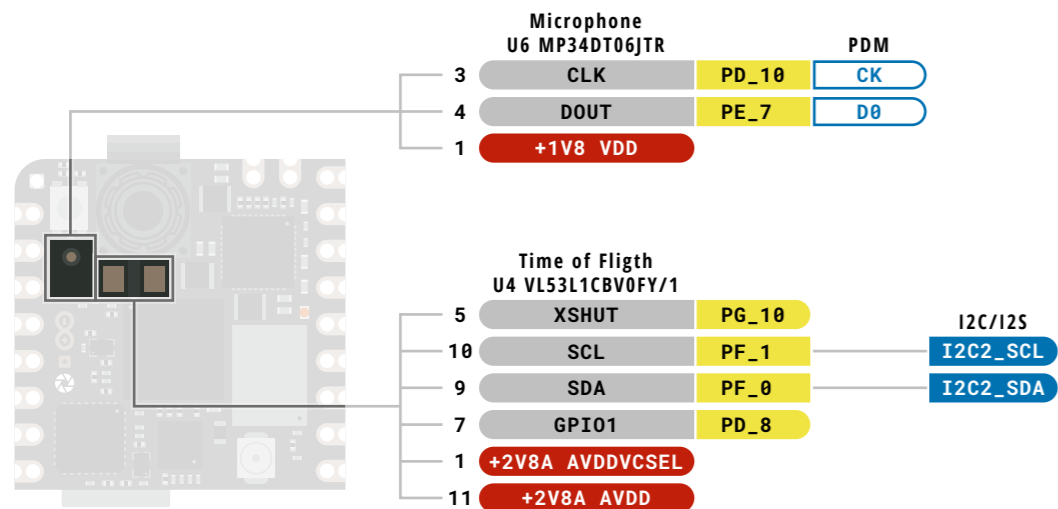
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SKU code: ABX00051
Full Pinout - Page 6 of 9
Last update: 14 Dec, 2022

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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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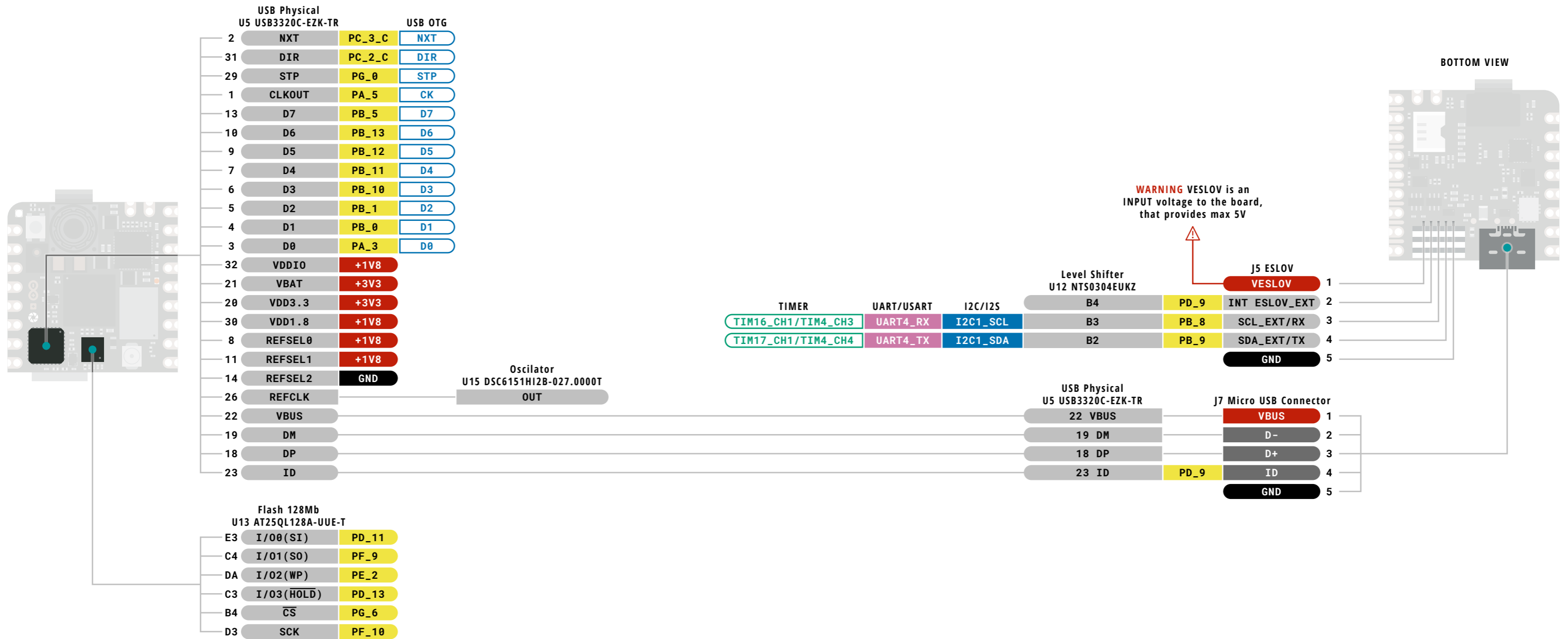
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Full Pinout - Page 7 of 9
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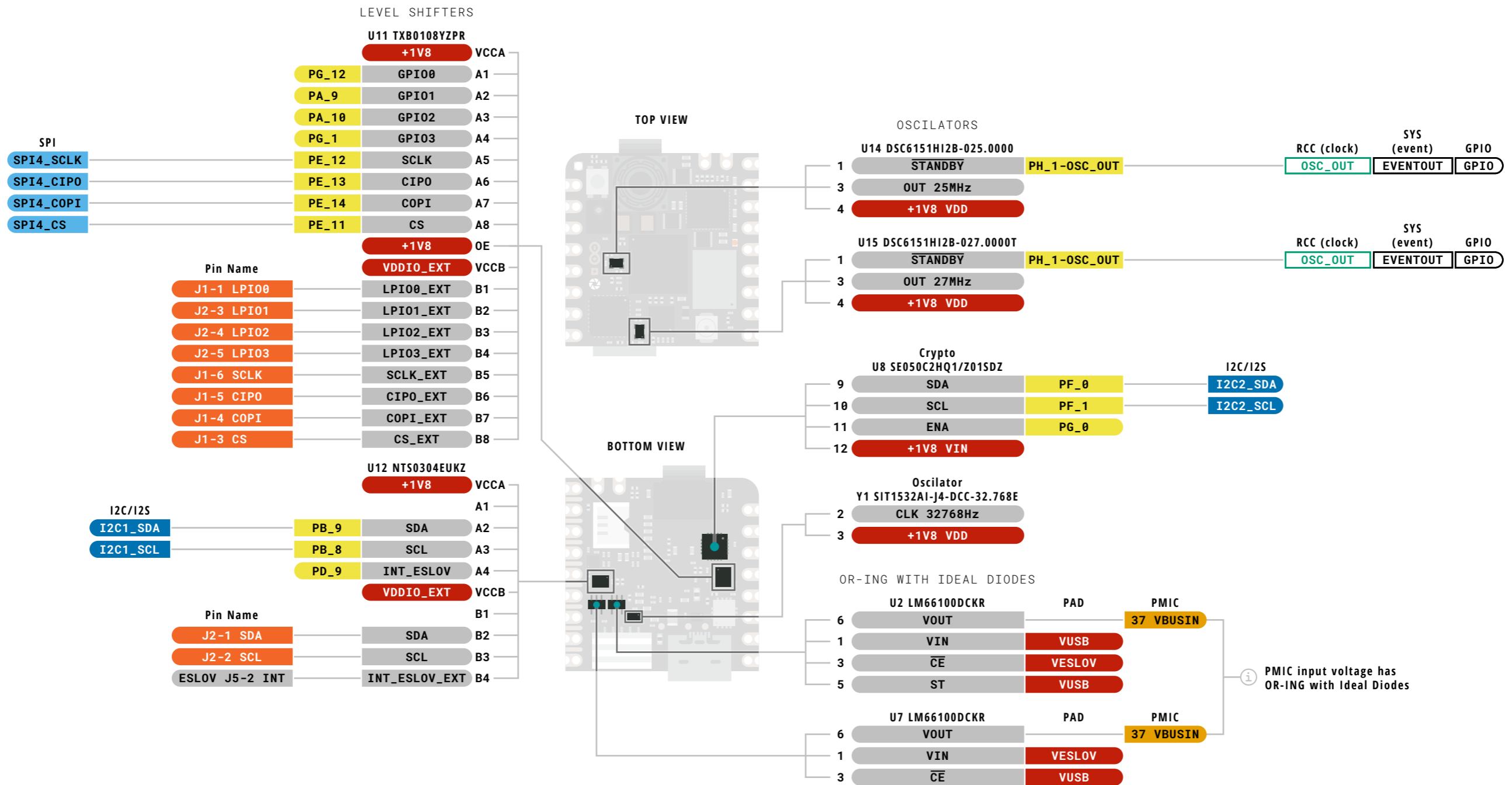
NICLA VISION

SKU code: ABX00051
Full Pinout - Page 8 of 9
Last update: 14 Dec, 2022

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