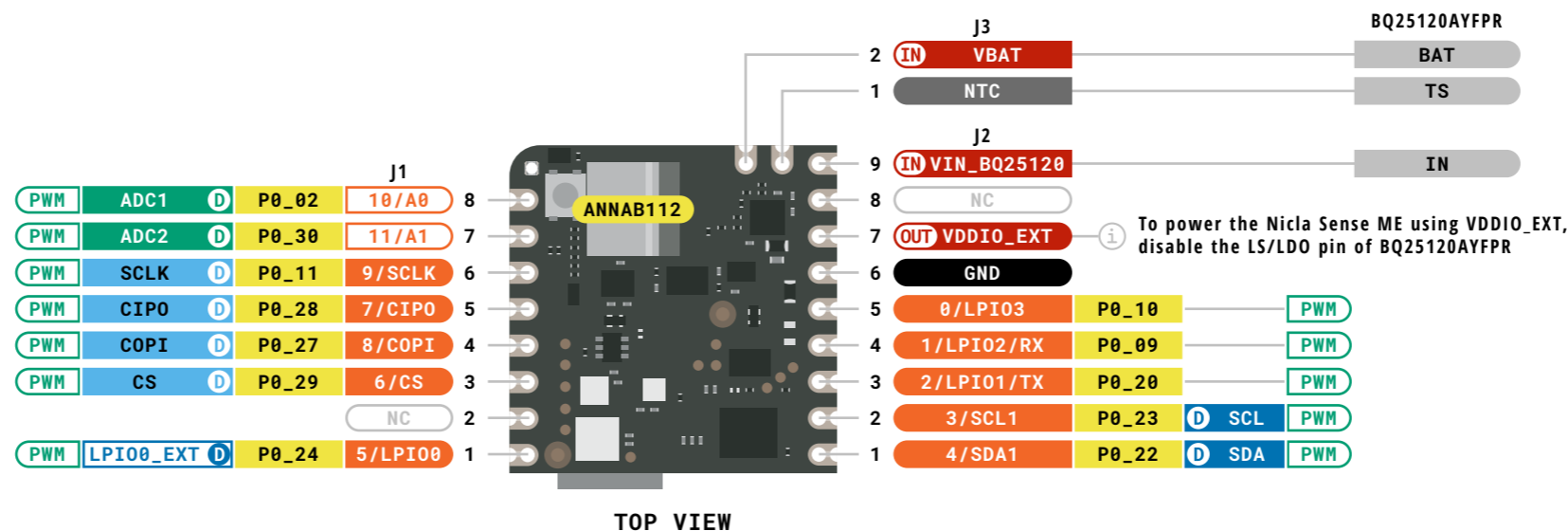


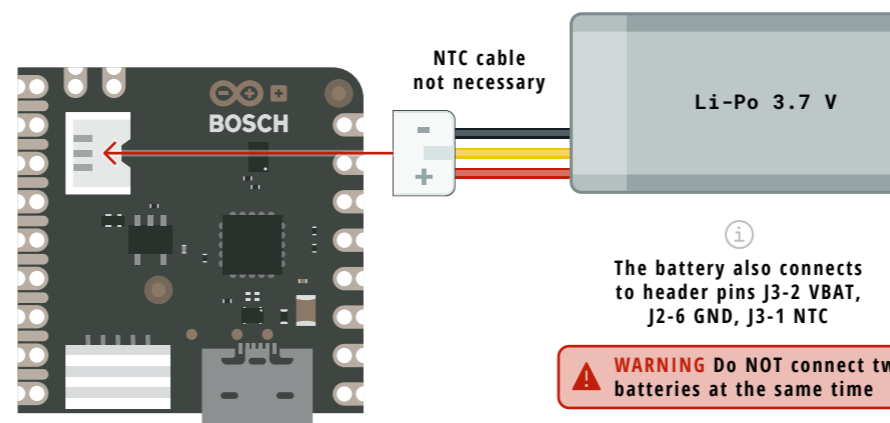
TOP VIEW

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

**WARNING** Do NOT connect two batteries at the same time



TOP VIEW



BOTTOM VIEW

**WARNING** Do NOT connect two batteries at the same time

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** 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

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

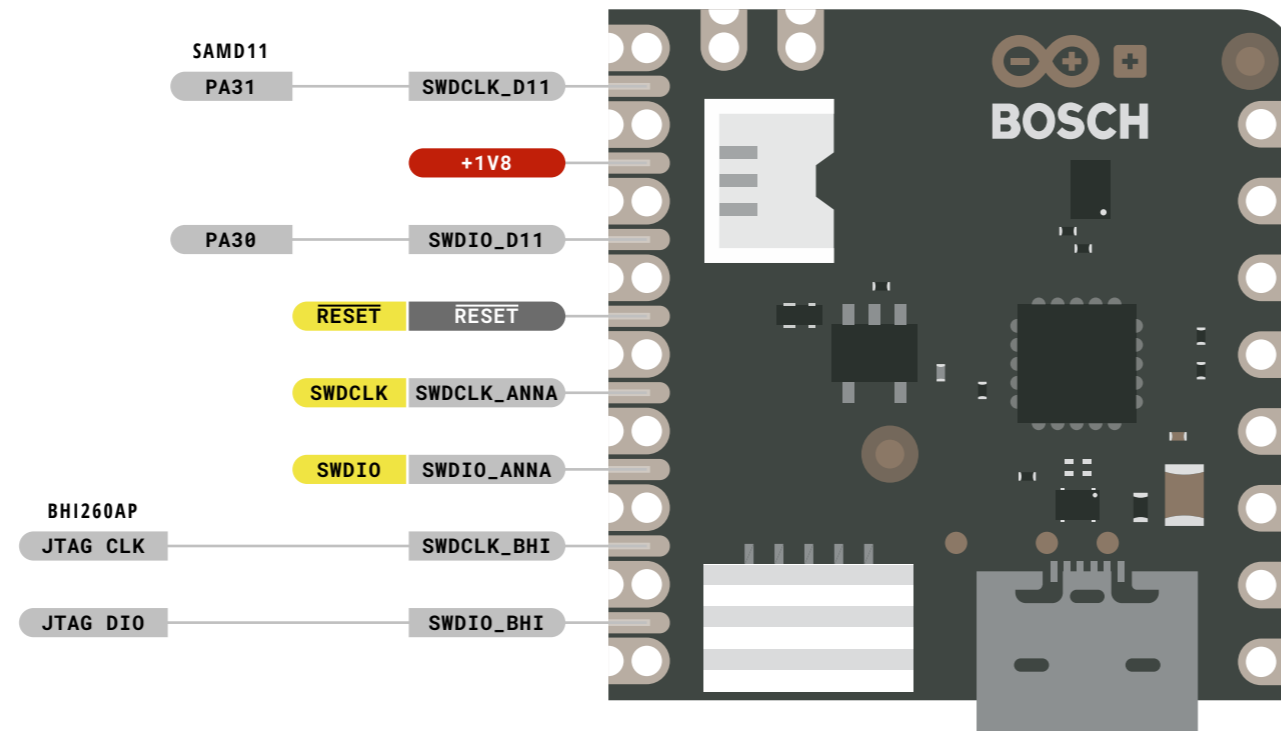


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## BOTTOM VIEW



### 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

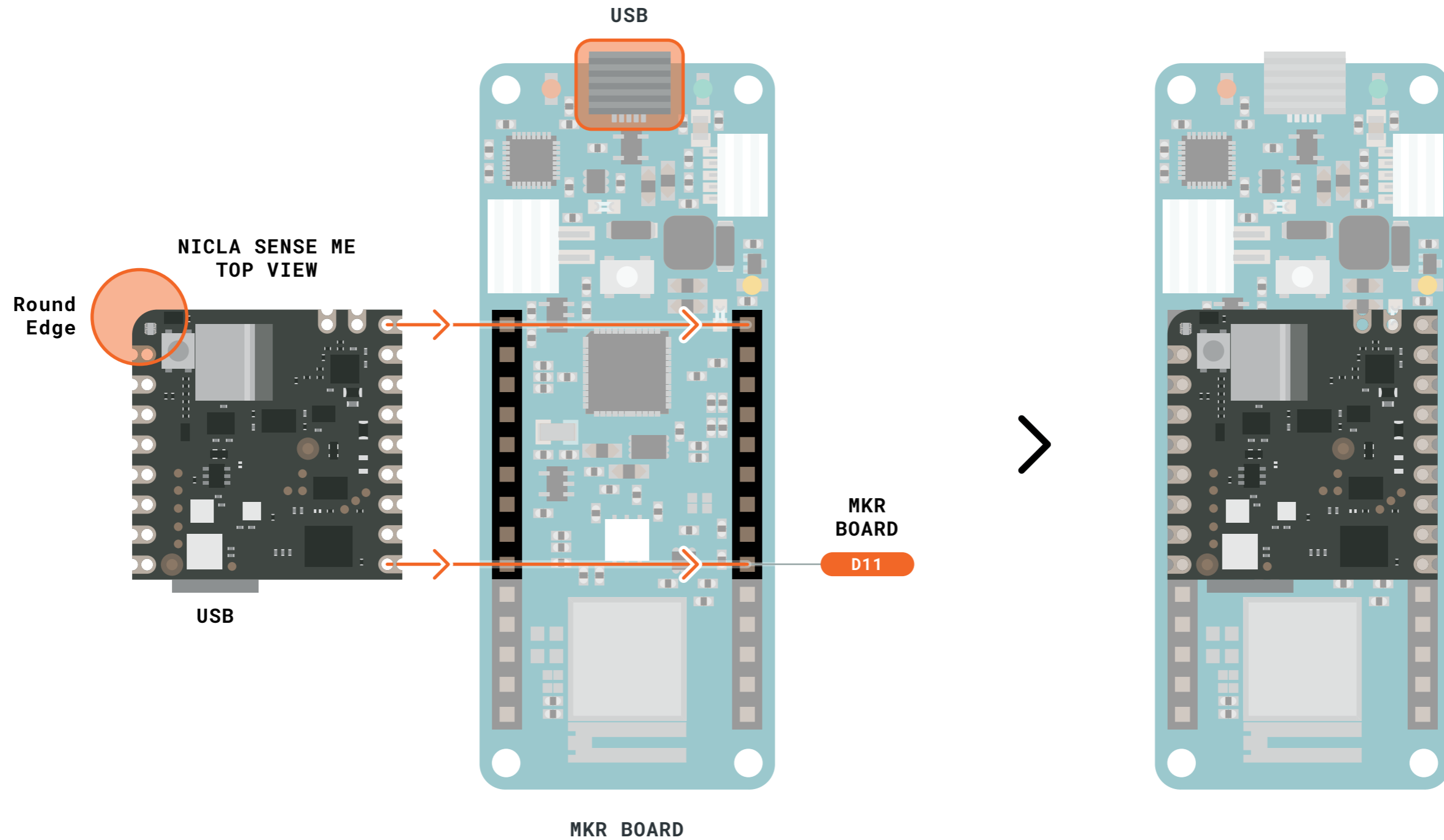
CIP0/COPI have previously been referred to as MISO/MOSI



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# Compatible with MKR Boards



## 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
- 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

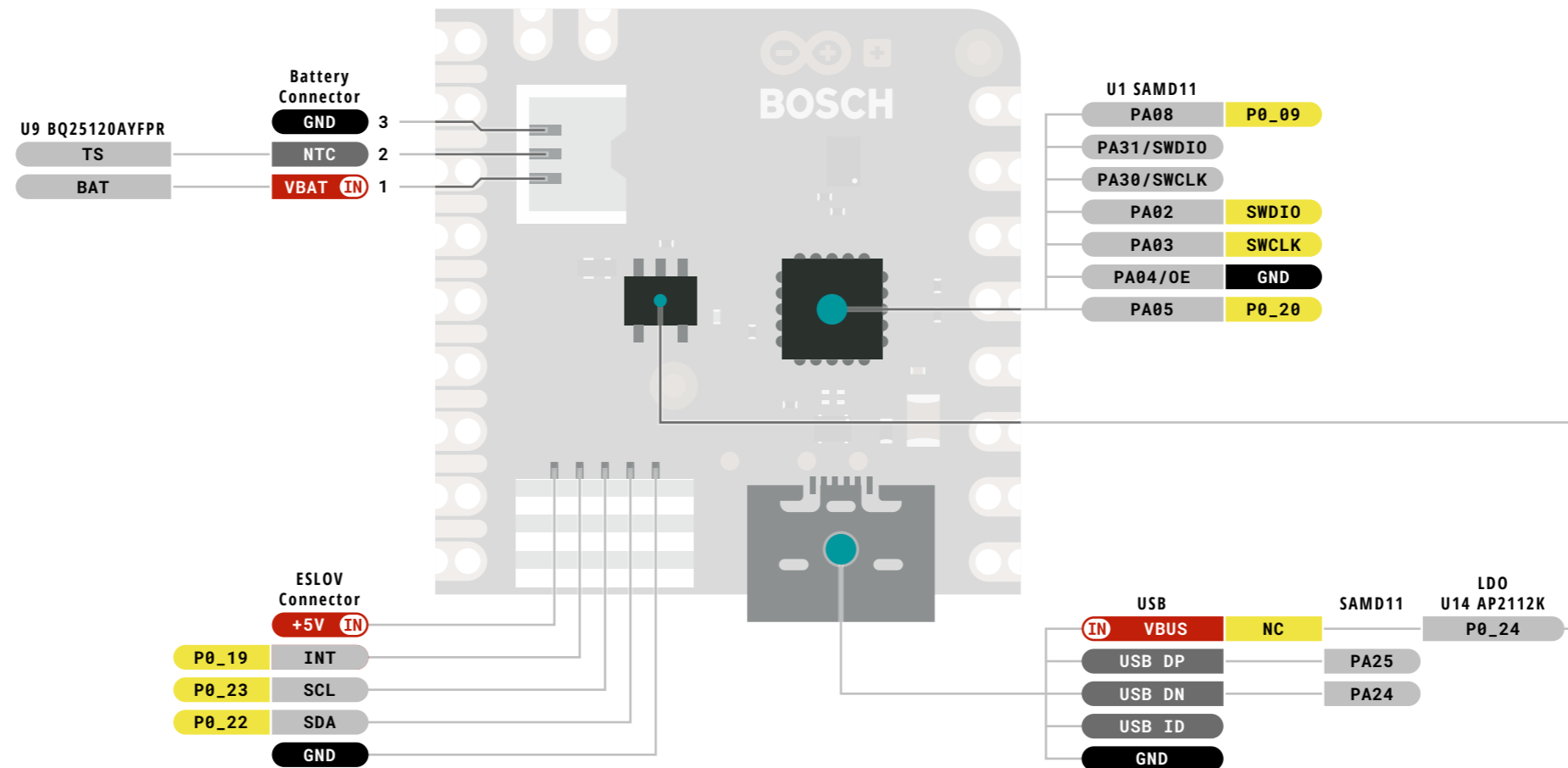


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## BOTTOM VIEW



### 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



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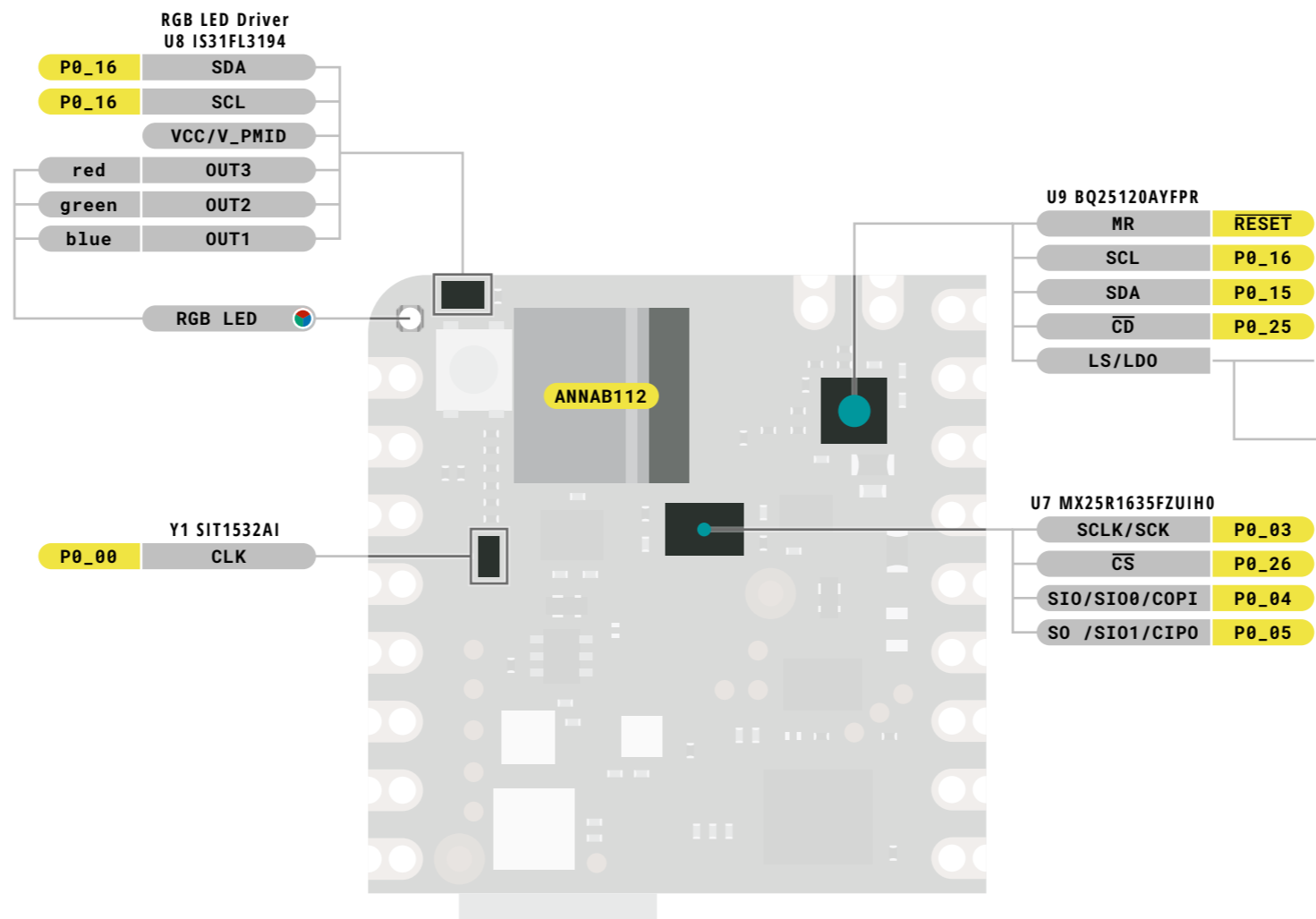
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WARNING!

## Advanced Section

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





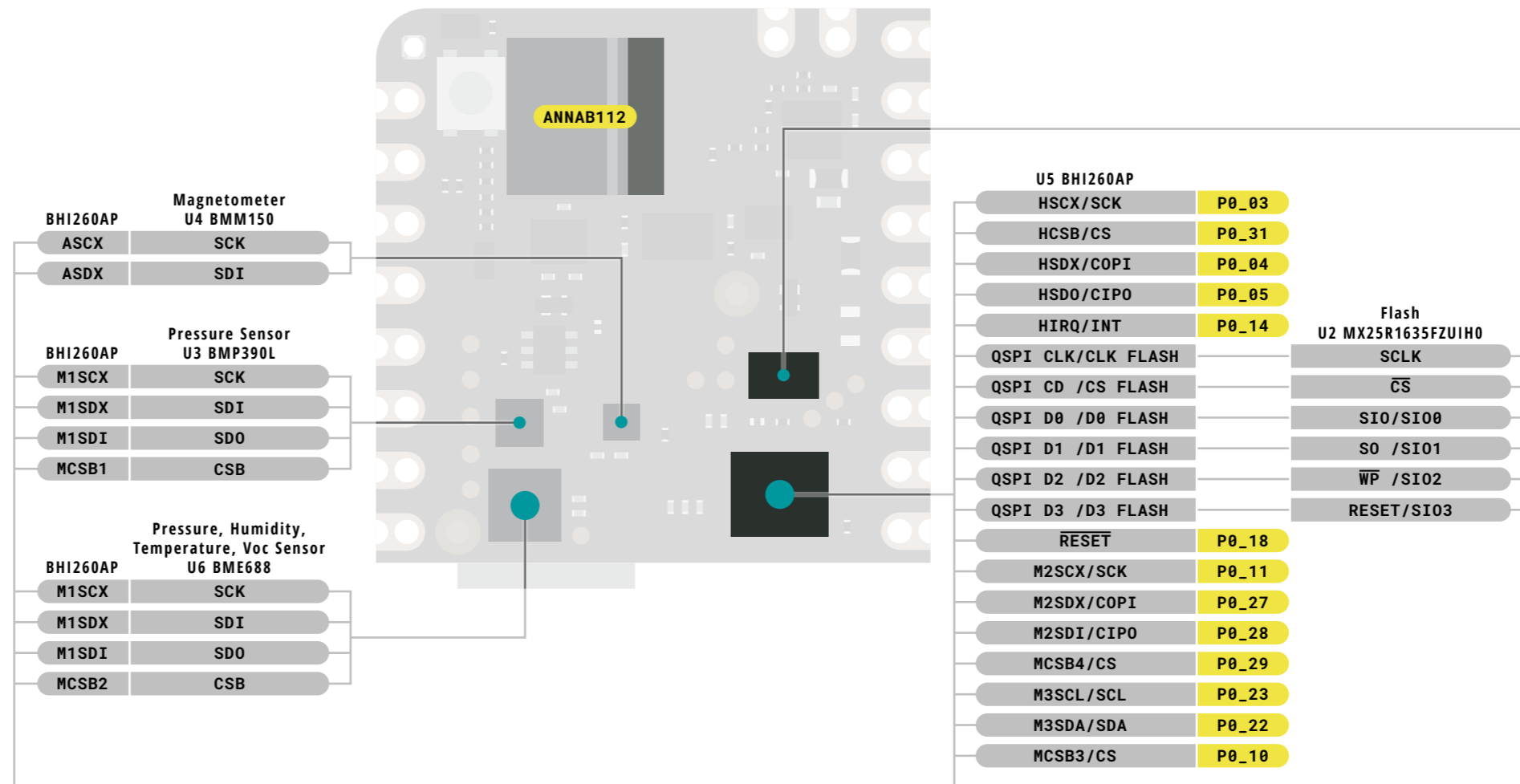
Disabling the LS/LDO pin it is possible to power the Nicla Sense ME using VDDIO\_EXT pin on the header

If LS/LDO pin is enabled, it is possible to configure the Nicla Sense ME to work at +3V3 or +1V8, depending on the configuration of the maximum input voltage

TOP VIEW

<b>Legend:</b> <span style="color: red;">■</span> Power     Power Input <span style="color: orange;">■</span> GPIO Digital External     LED <span style="color: black;">■</span> Ground     Power Output <span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px;"></span> Analog External     RGB LED <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Main Part <span style="background-color: orange; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Secondary Part <span style="border: 1px solid gray; display: inline-block; width: 10px; height: 10px;"></span> Other <span style="background-color: gray; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Internal Component <span style="background-color: black; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Other Pins (Reset, System Control, Debugging)				<p><b>⚠ MAXIMUM</b> 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</p> <p><b>i</b> CIP0/COPI have previously been referred to as MISO/MOSI</p>	<b>NICLA SENSE ME</b> SKU code: ABX00050 Full Pinout - Page 6 of 8 Last update: 7 Oct, 2022 <hr/> <b>DOCS.ARDUINO.CC</b> This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <a href="http://creativecommons.org/licenses/by-sa/4.0/">http://creativecommons.org/licenses/by-sa/4.0/</a> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.
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### TOP VIEW



**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
- 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 SENSE ME**

**ARDUINO**

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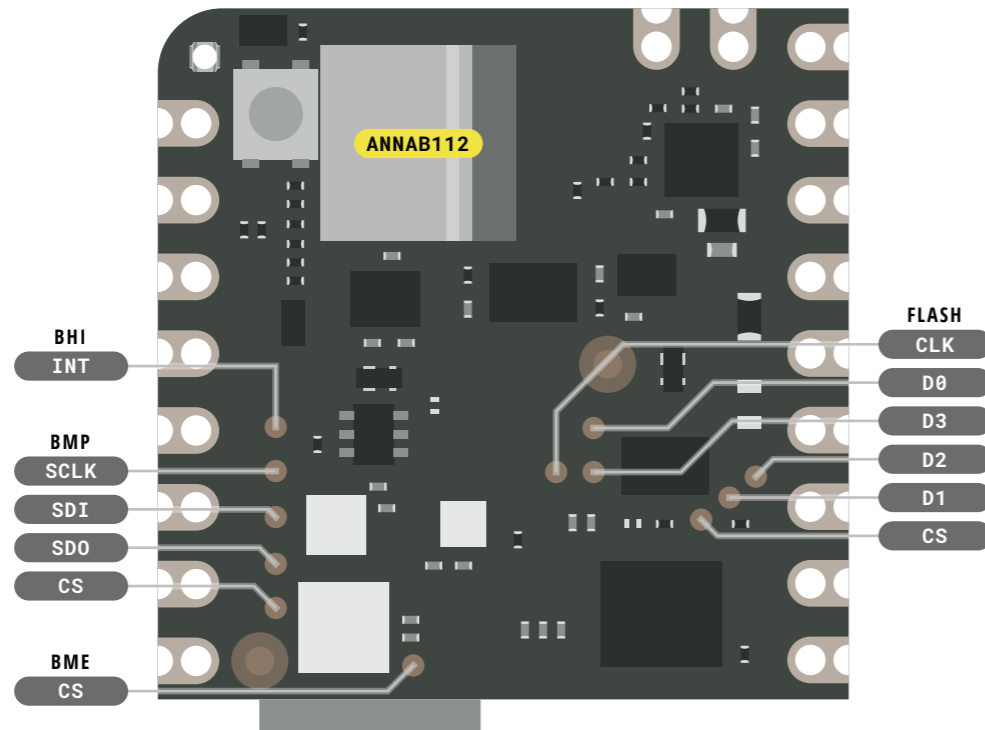
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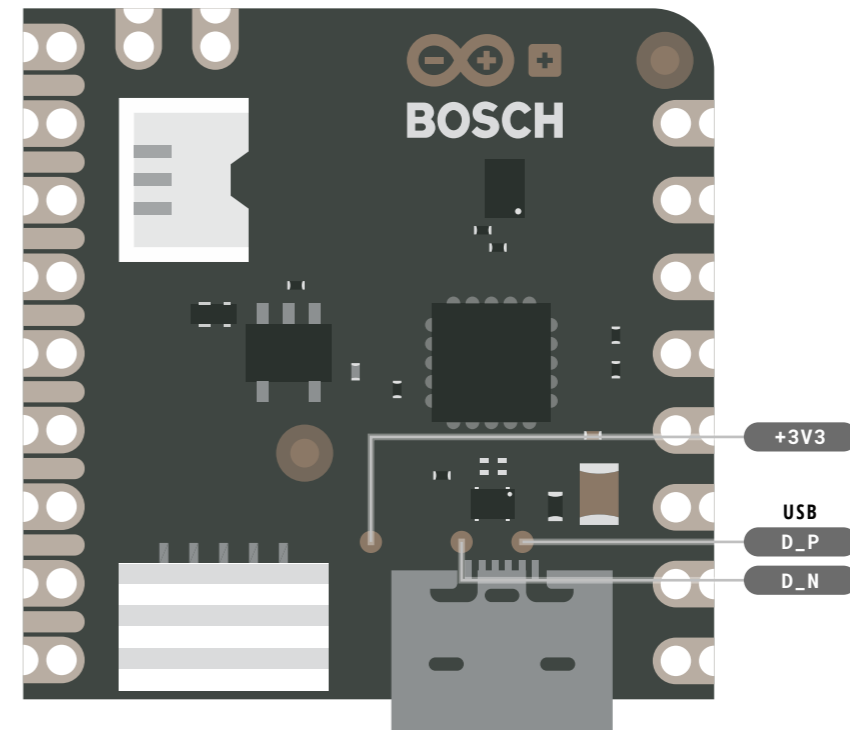
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# Test Points

TOP VIEW



BOTTOM VIEW



**Legend:**

- Power
- Ground
- Power Input
- 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.  
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