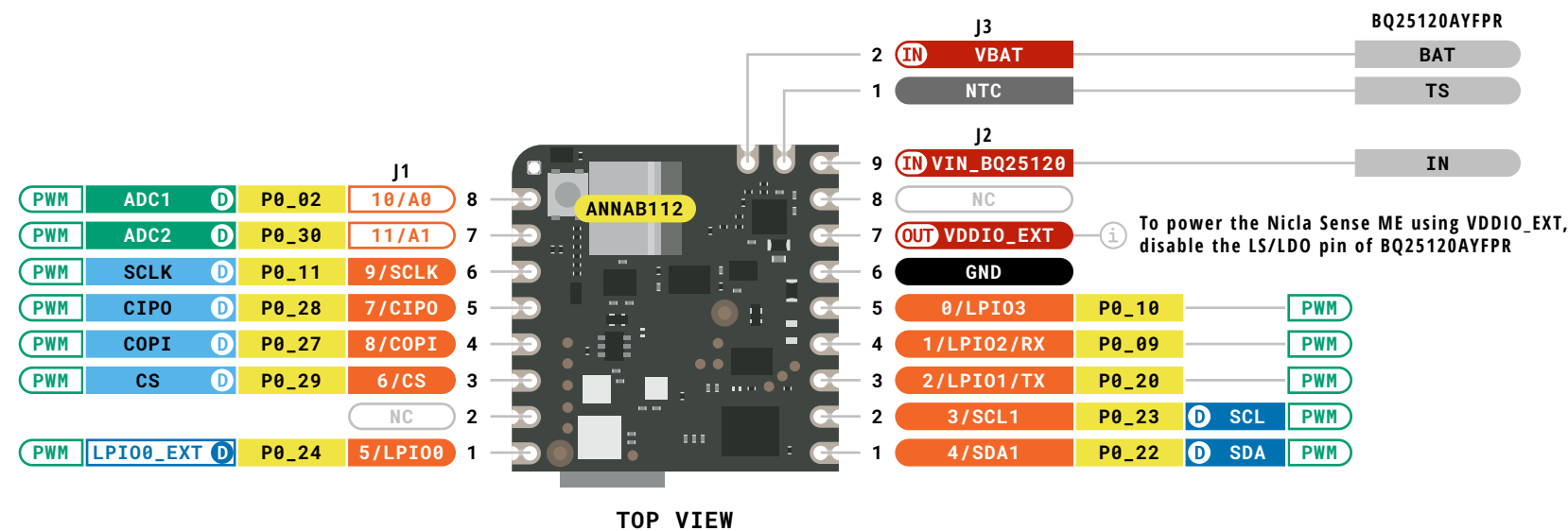


If the battery has NTC cable, connects it to the NTC pin

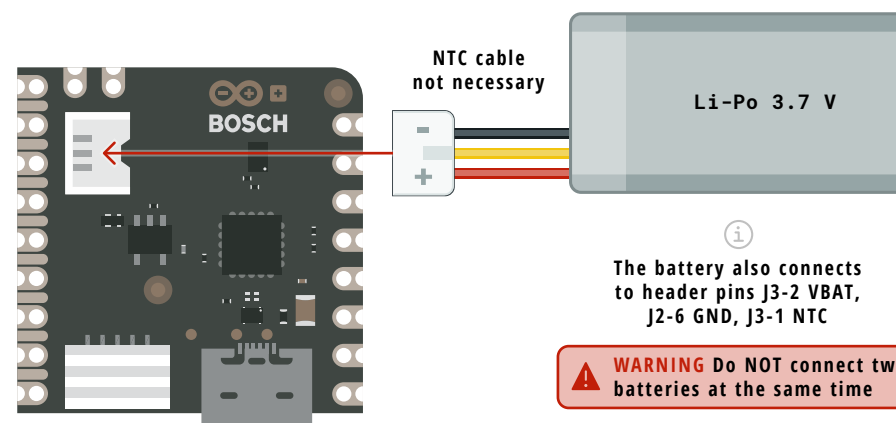
TOP VIEW

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** 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 SENSE ME**  
**ARDUINO**

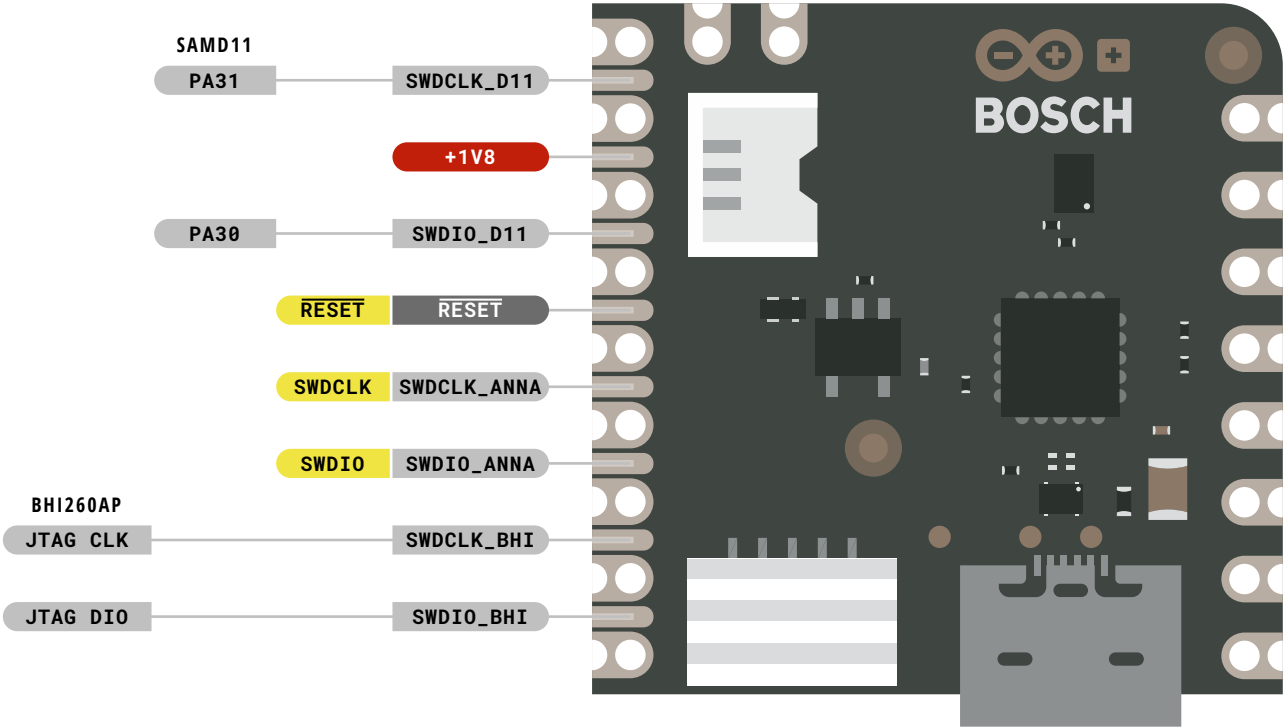
SKU code: ABX00050  
Full Pinout - Page 1 of 8  
Last update: 19 Sep, 2023

DOCS.ARDUINO.CC

CC BY SA

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

BOTTOM VIEW



Legend:

- |              |             |   |         |
|--------------|-------------|---|---------|
| Power        | Power Input | GPIO Digital External                         | LED     |
| Power Output |             | Analog External                               | RGB LED |
| Ground       |             | 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

**NICLA SENSE ME**  
**ARDUINO**

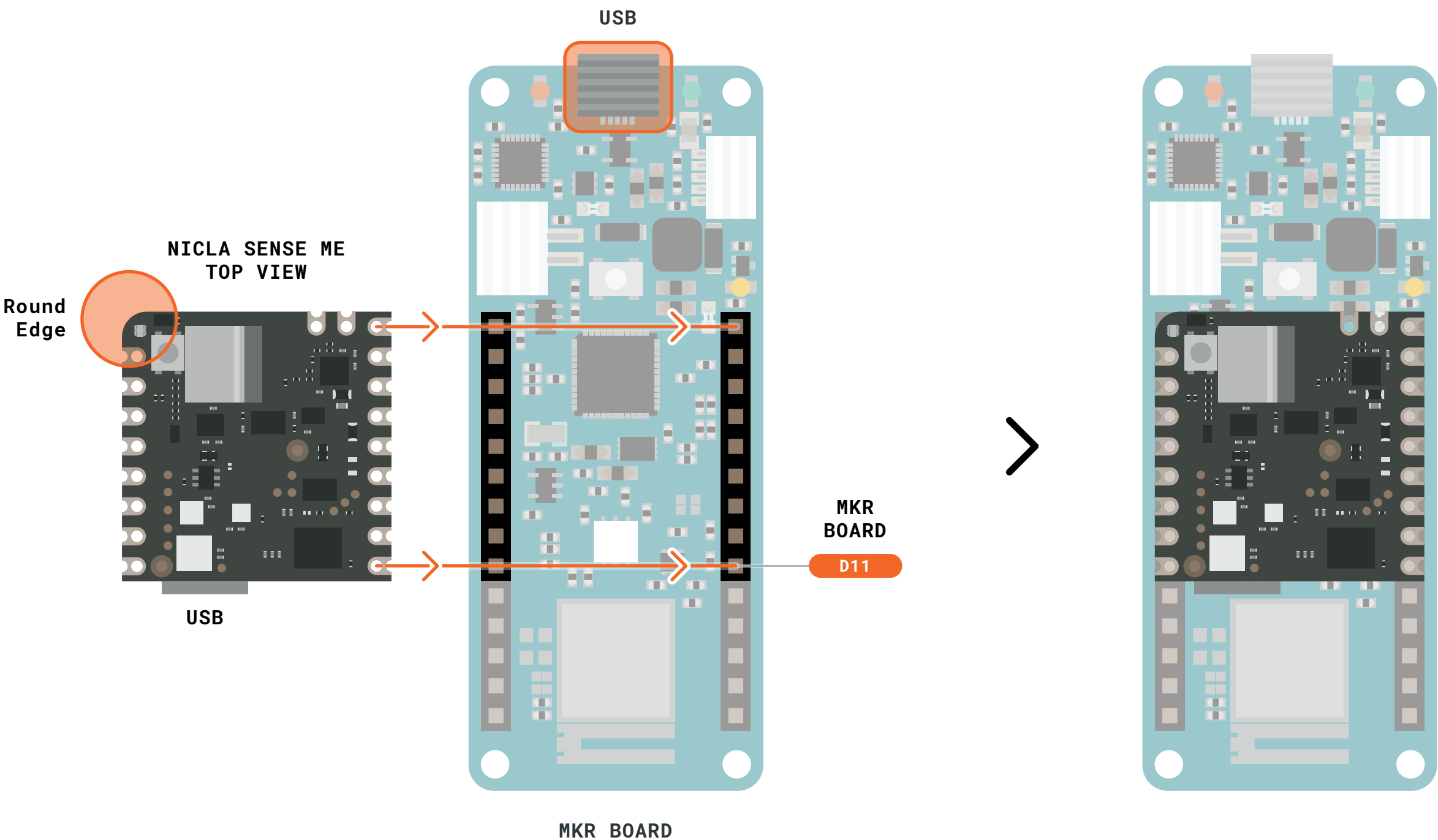
SKU code: ABX00050  
Full Pinout - Page 2 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

**CC BY SA**

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

Compatible with MKR Boards



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

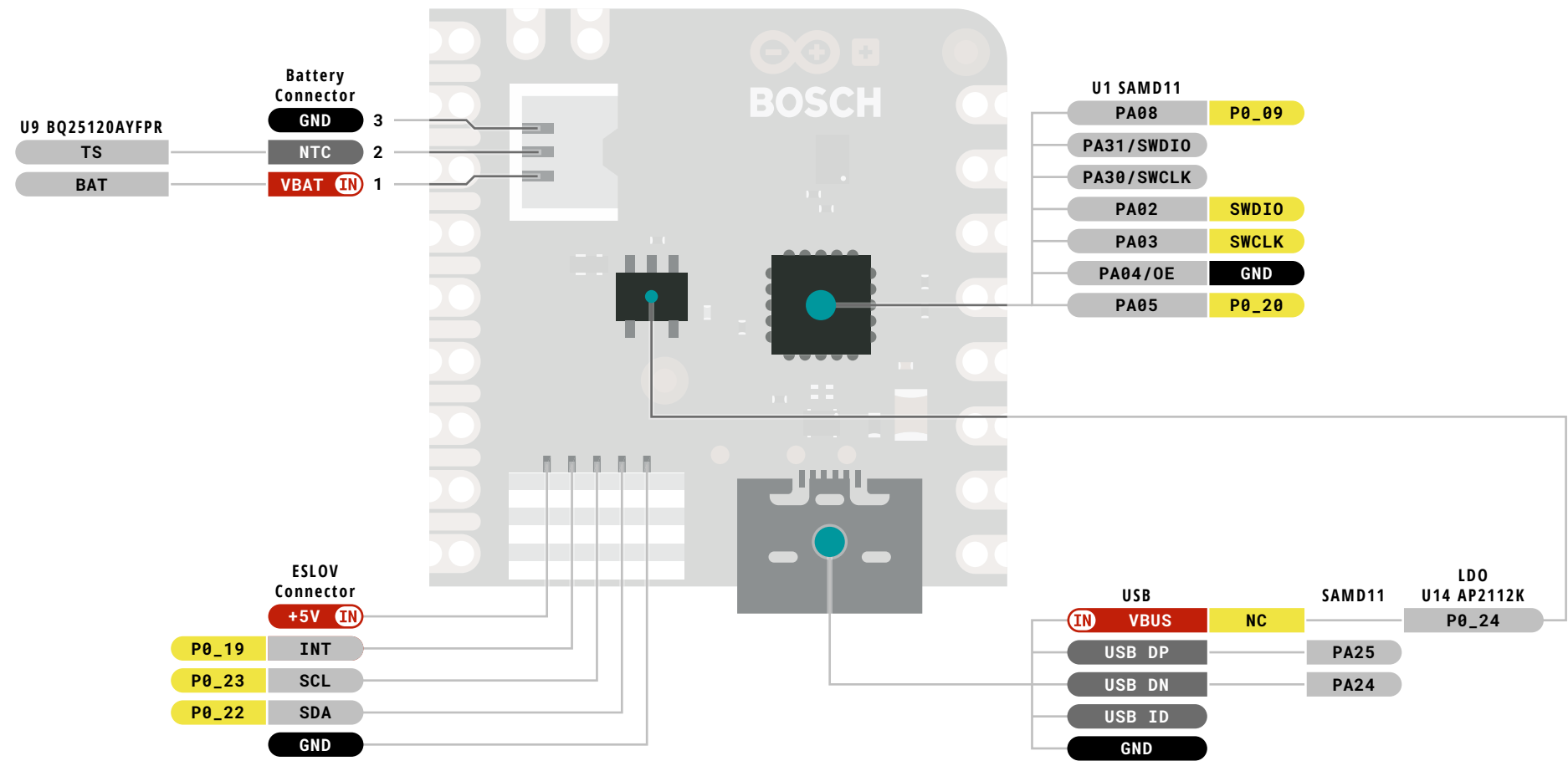
**NICLA SENSE ME**  
**ARDUINO**

SKU code: ABX00050  
Full Pinout - Page 3 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

BOTTOM VIEW



Legend:

- |              |             |   |         |
|--------------|-------------|---|---------|
| Power        | Power Input | GPIO Digital External                         | LED     |
| Power Output |             | Analog External                               | RGB LED |
| Ground       |             | 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

**NICLA SENSE ME**

SKU code: ABX00050  
Full Pinout - Page 4 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

**BY SA**

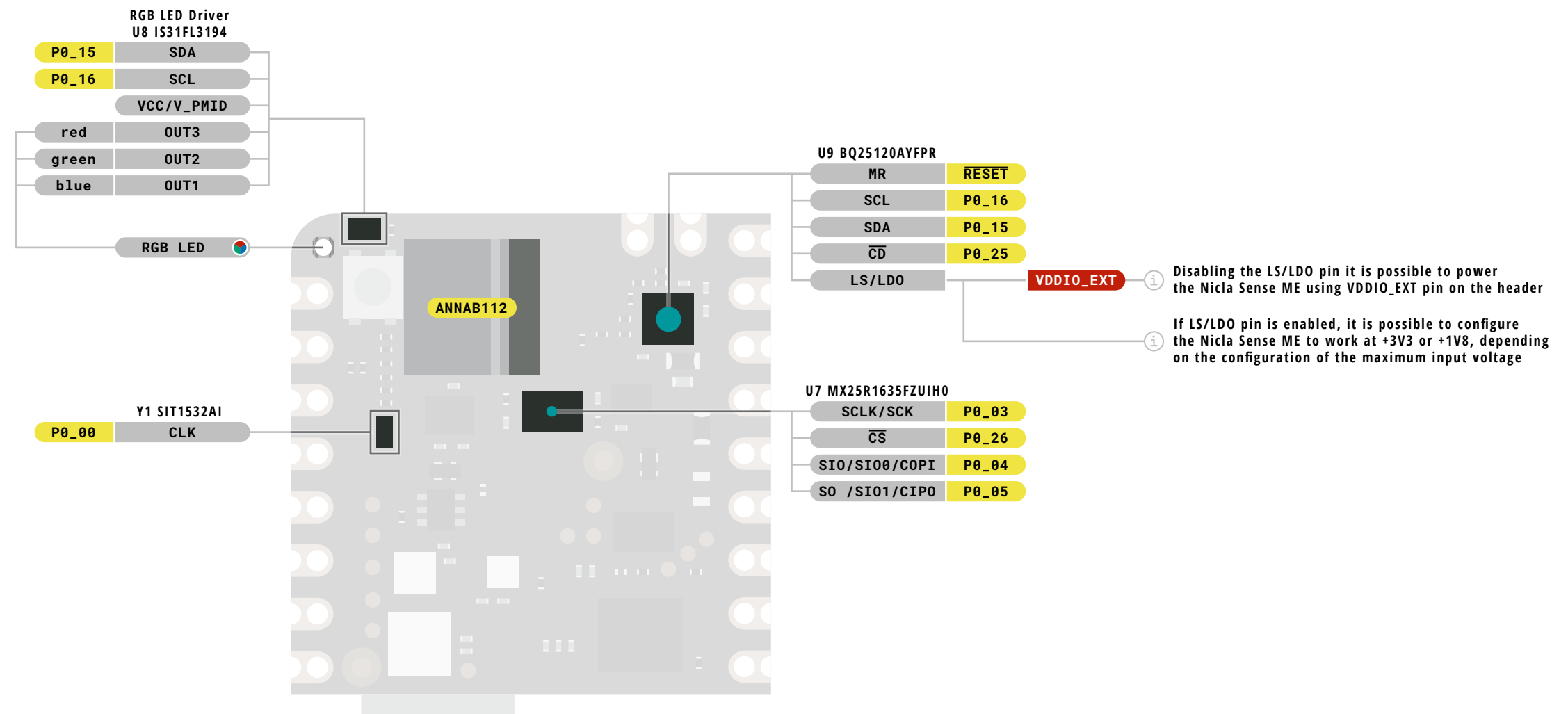
This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

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





TOP 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

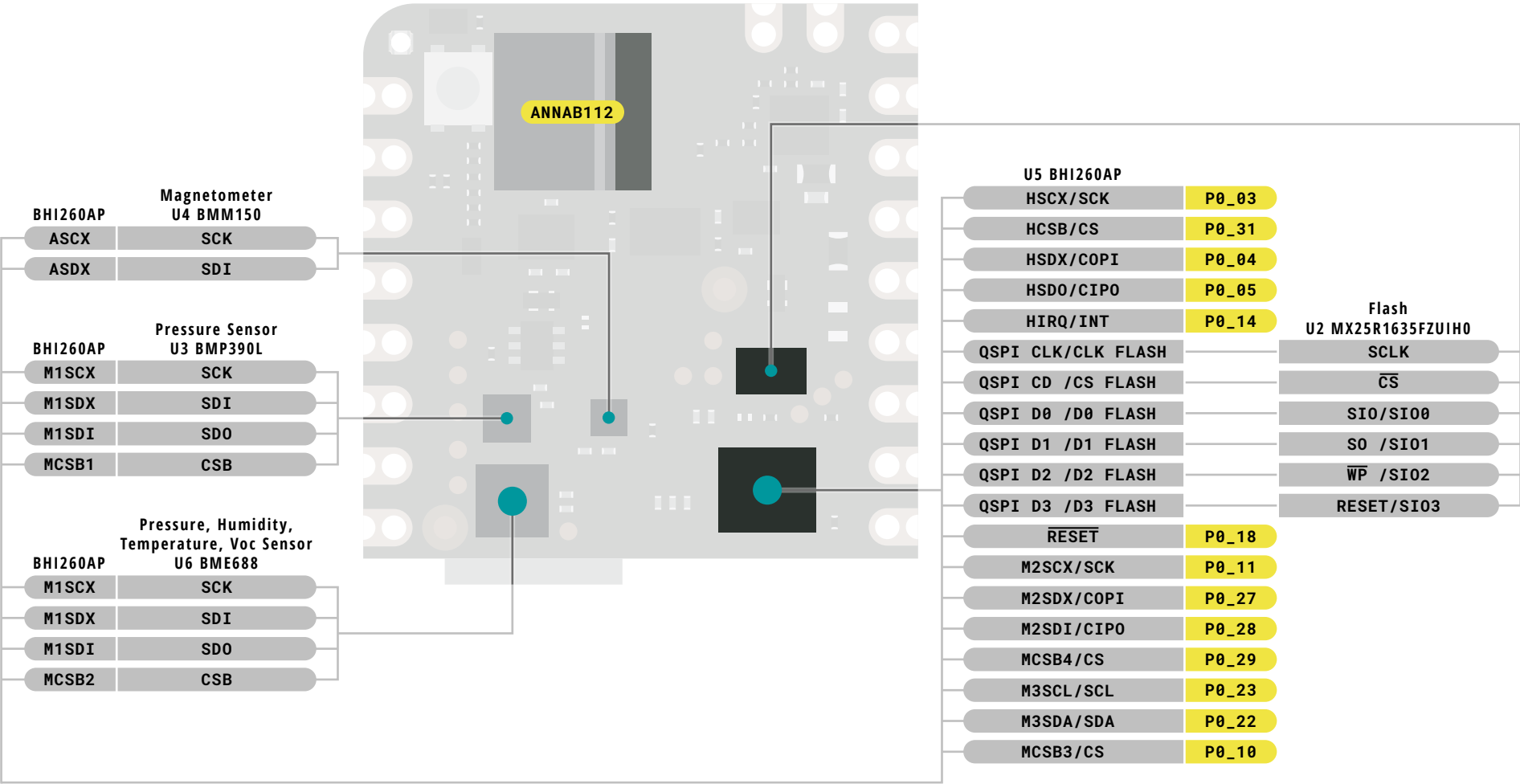
**ARDUINO** **NICLA SENSE ME**

SKU code: ABX00050  
Full Pinout - Page 6 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

TOP 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 MIS0/MOSI

**ARDUINO** **NICLA SENSE ME**

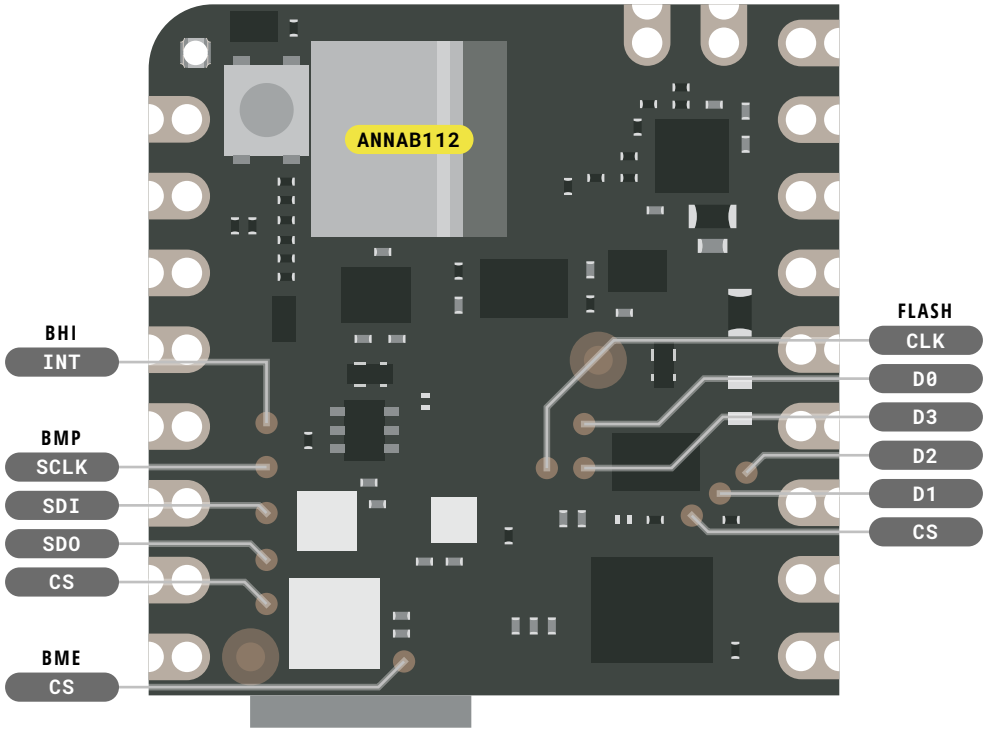
SKU code: ABX00050  
Full Pinout - Page 7 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

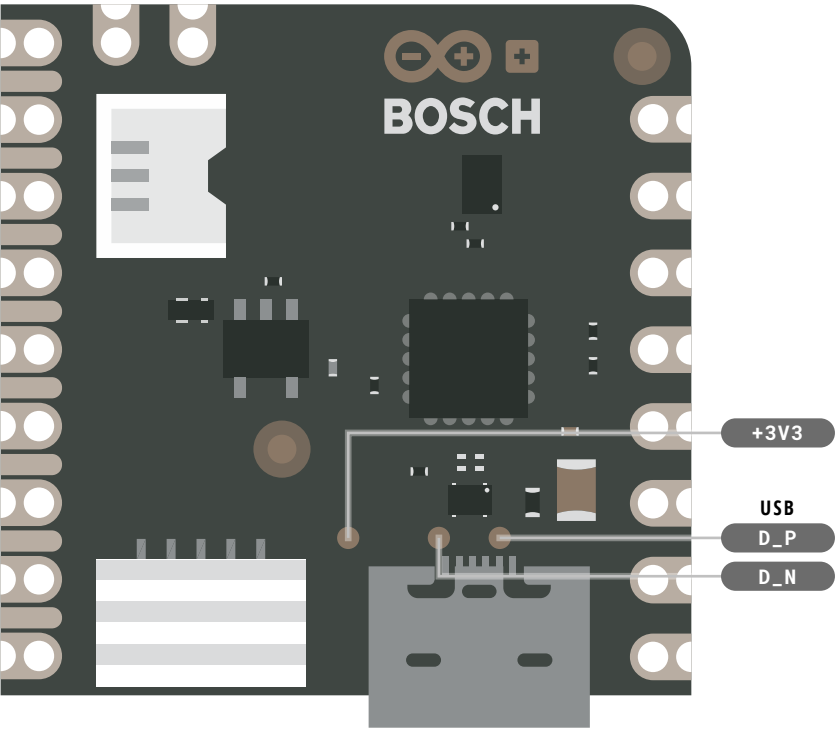
This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

Test Points

TOP VIEW



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

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

**NICLA SENSE ME**  
**ARDUINO**

SKU code: ABX00050  
Full Pinout - Page 8 of 8  
Last update: 19 Sep, 2023

**DOCS . ARDUINO . CC**

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.