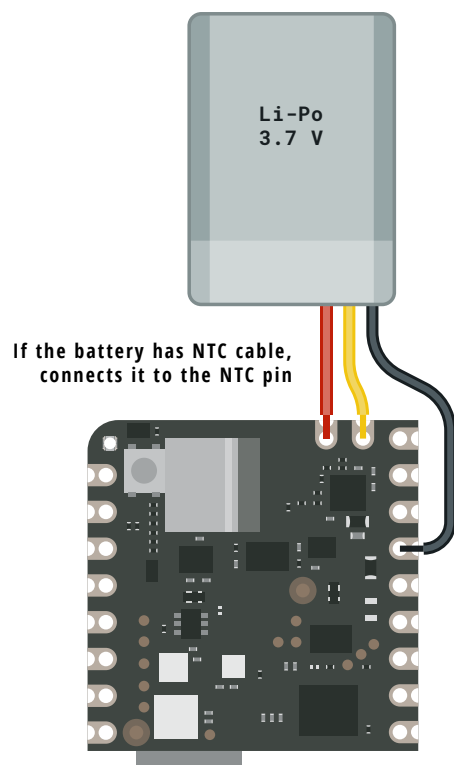
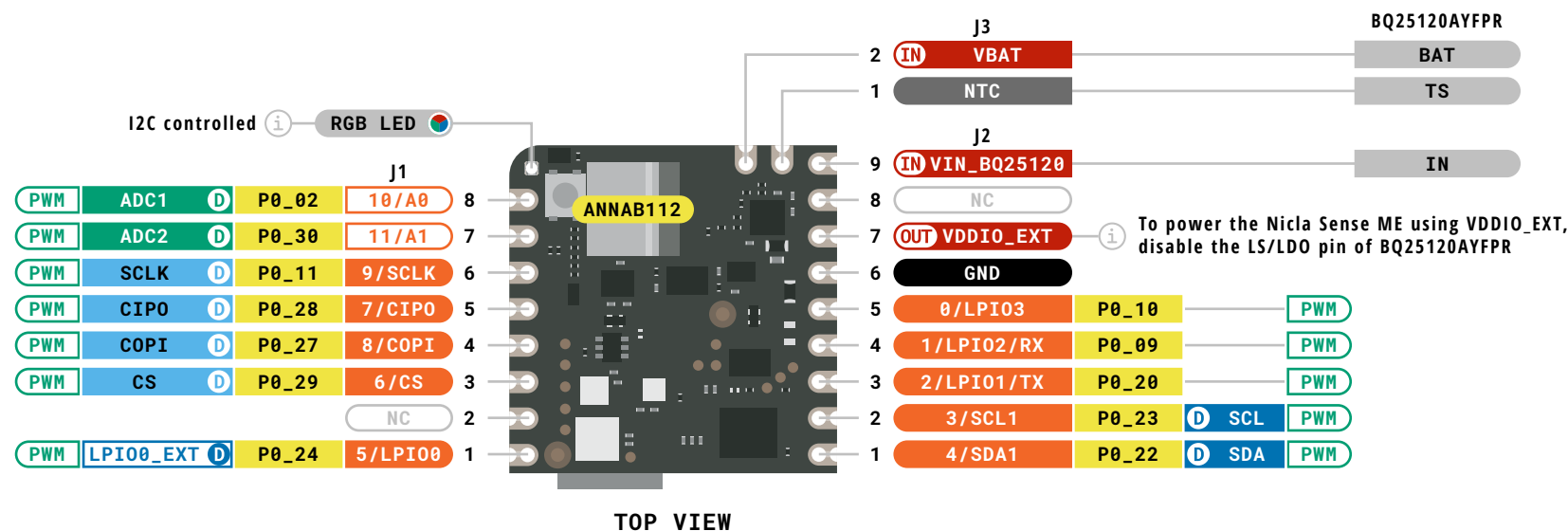




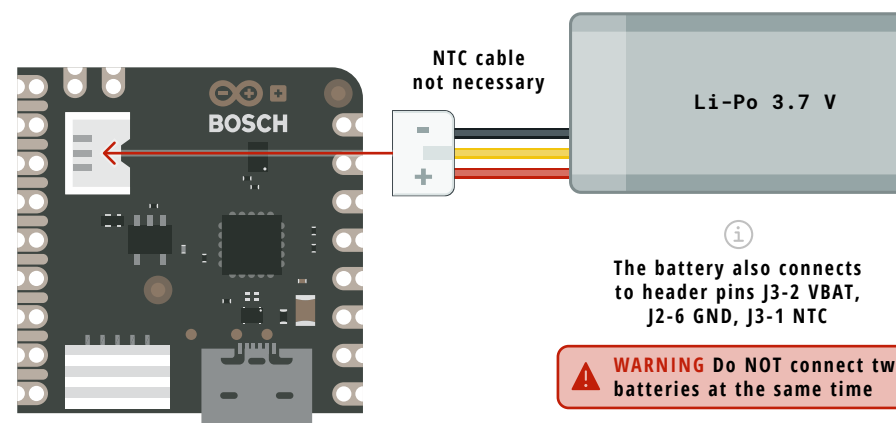
TOP VIEW

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

The battery also connects to header pins J3-2 VBAT, J2-6 GND, J3-1 NTC

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

#### 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  
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

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**ARDUINO**

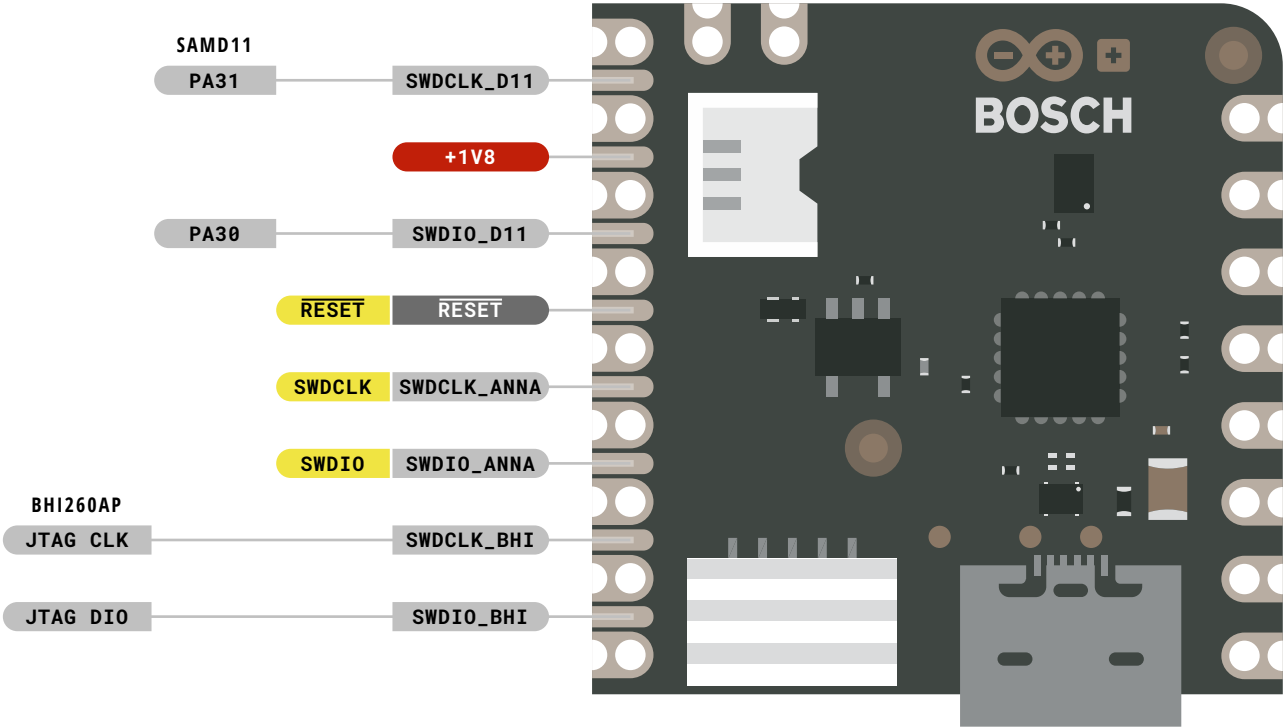
SKU code: ABX00050  
Full Pinout - Page 1 of 8  
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BOTTOM VIEW



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

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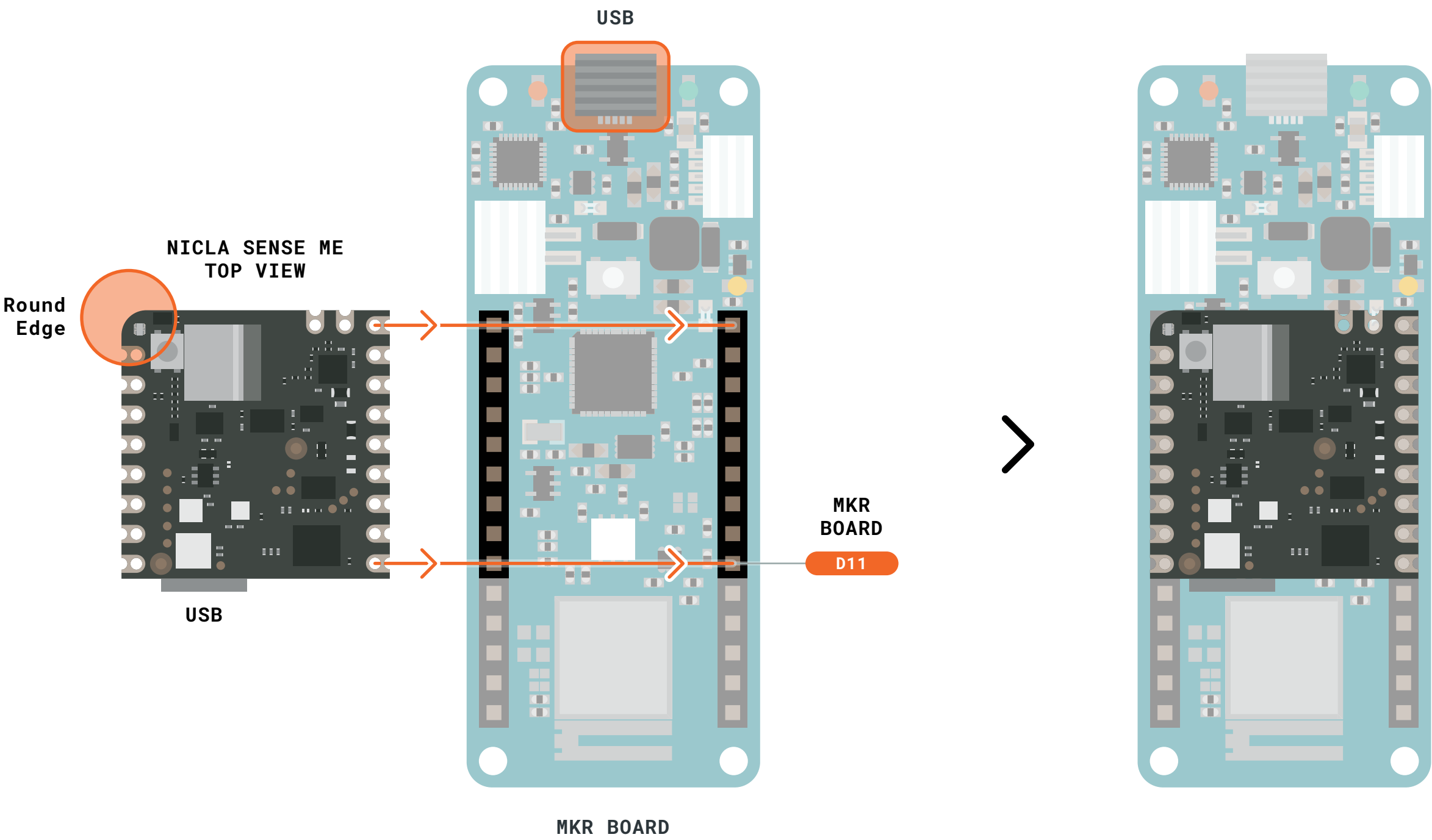
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Compatible with MKR Boards



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

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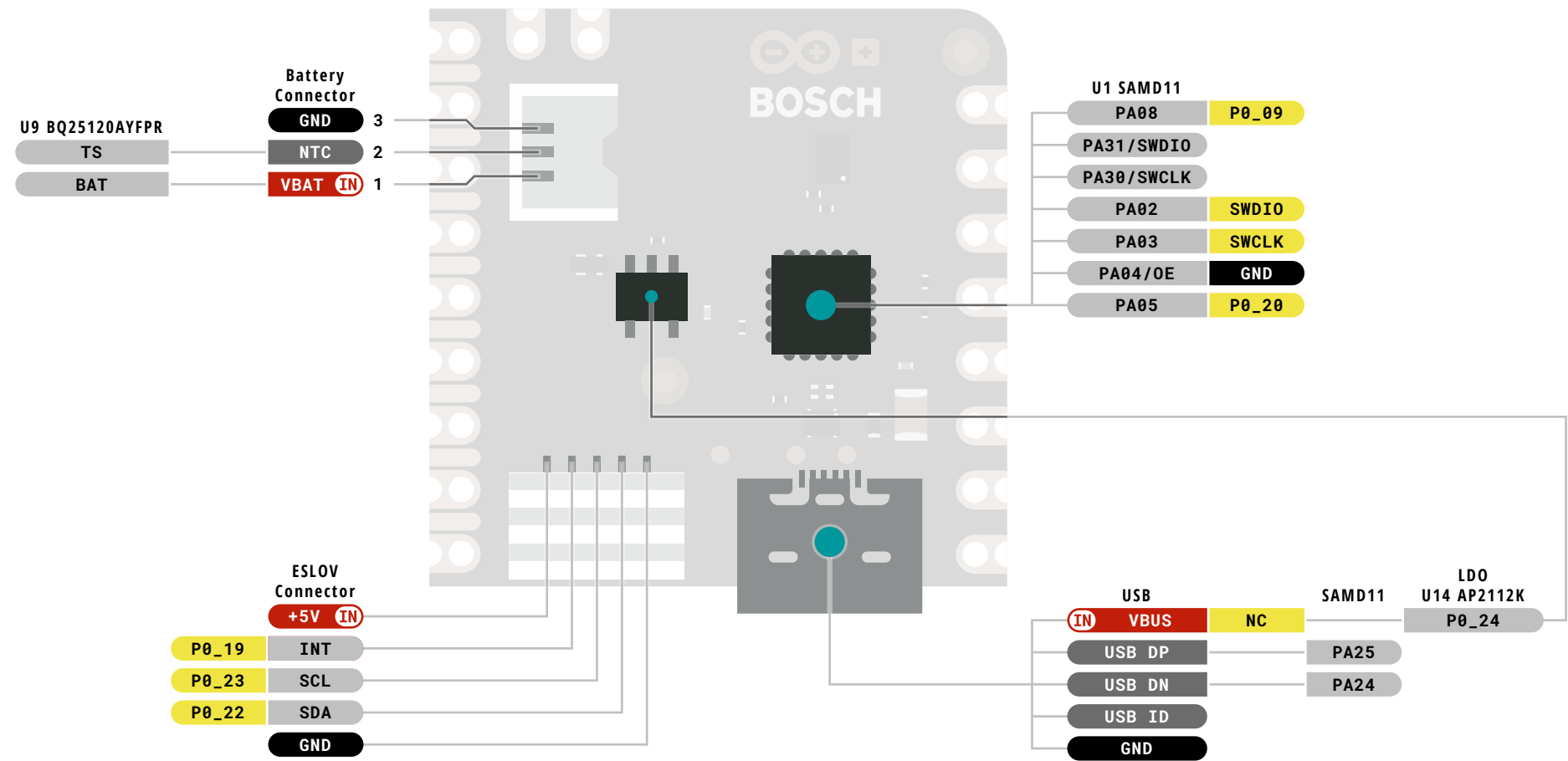
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BOTTOM VIEW



Legend:

- |                         |                        |                                                          |                    |
|-------------------------|------------------------|----------------------------------------------------------|--------------------|
| <div>Power</div>        | <div>Power Input</div> | <div>GPIO Digital External</div>                         | <div>LED</div>     |
| <div>Power Output</div> |                        | <div>Analog External</div>                               | <div>RGB LED</div> |
| <div>Ground</div>       |                        | <div>Main Part</div>                                     | <div>Other</div>   |
|                         |                        | <div>Secondary Part</div>                                |                    |
|                         |                        | <div>Internal Component</div>                            |                    |
|                         |                        | <div>Other Pins (Reset, System Control, Debugging)</div> |                    |

**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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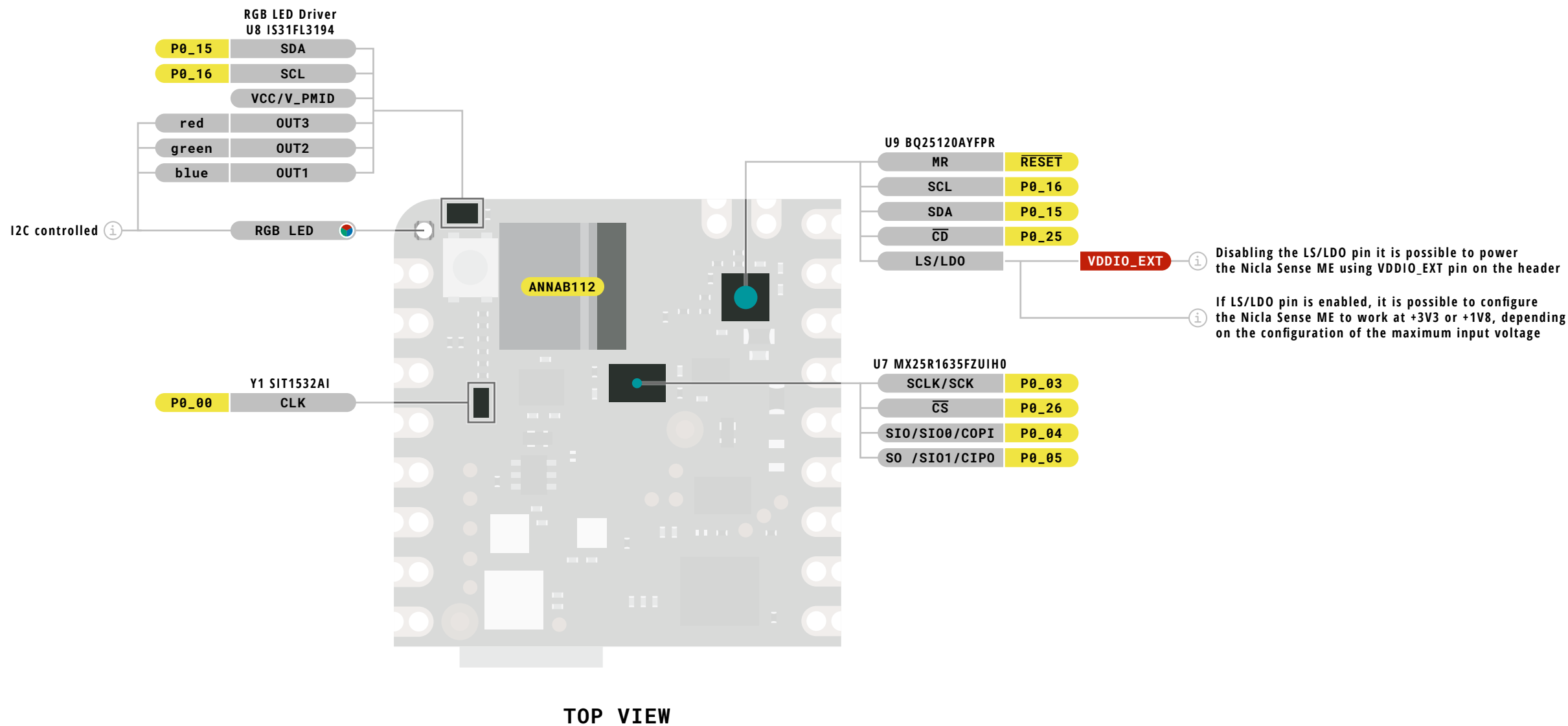
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W A R N I N G !

## Advanced Section

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





**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

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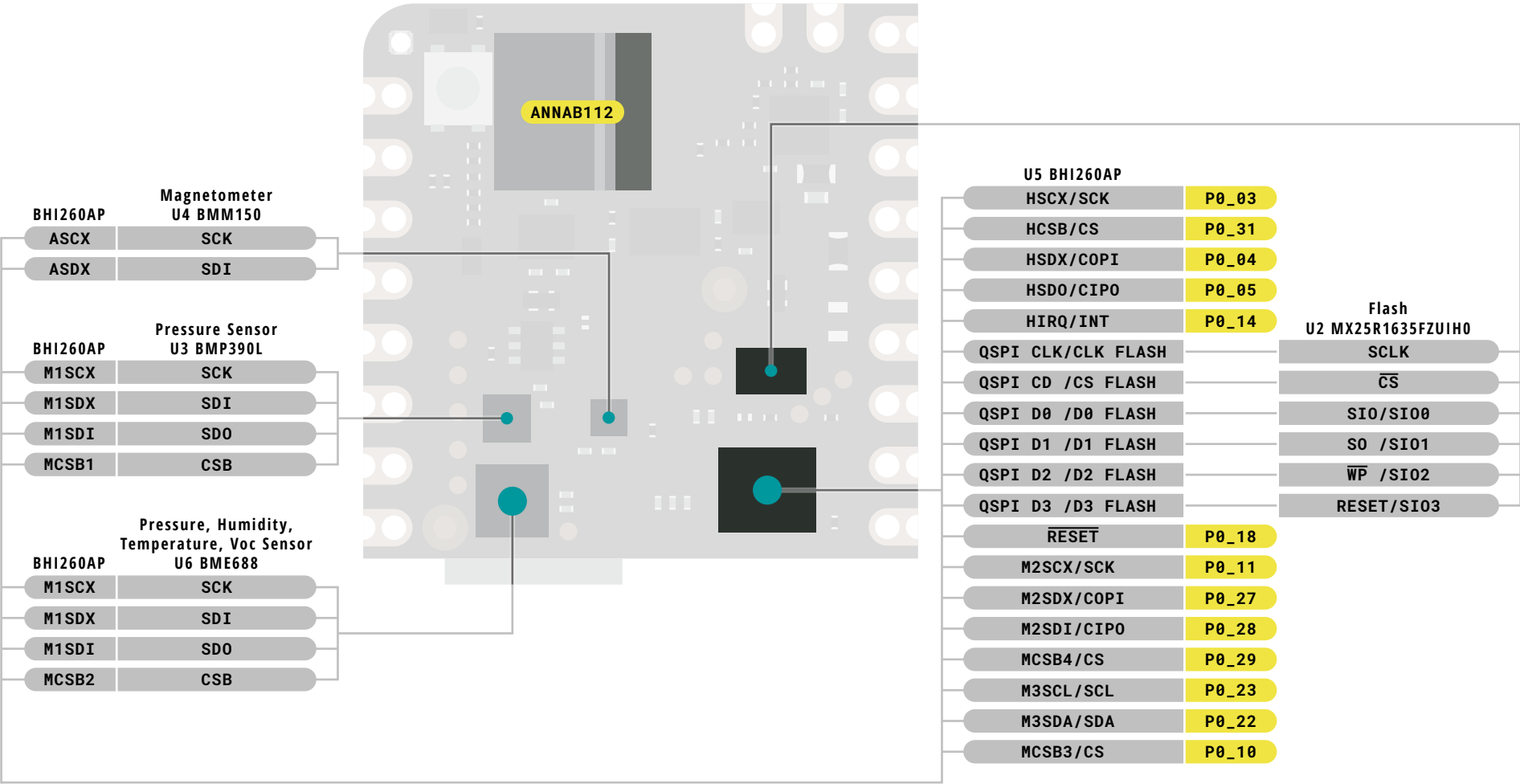
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TOP VIEW



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.  
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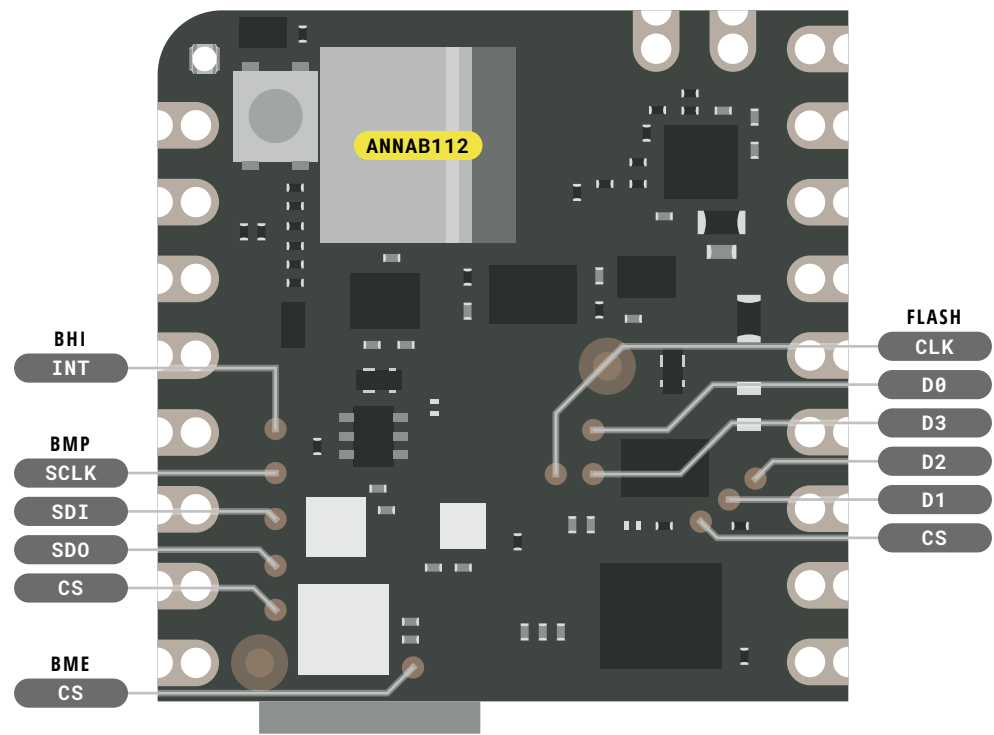
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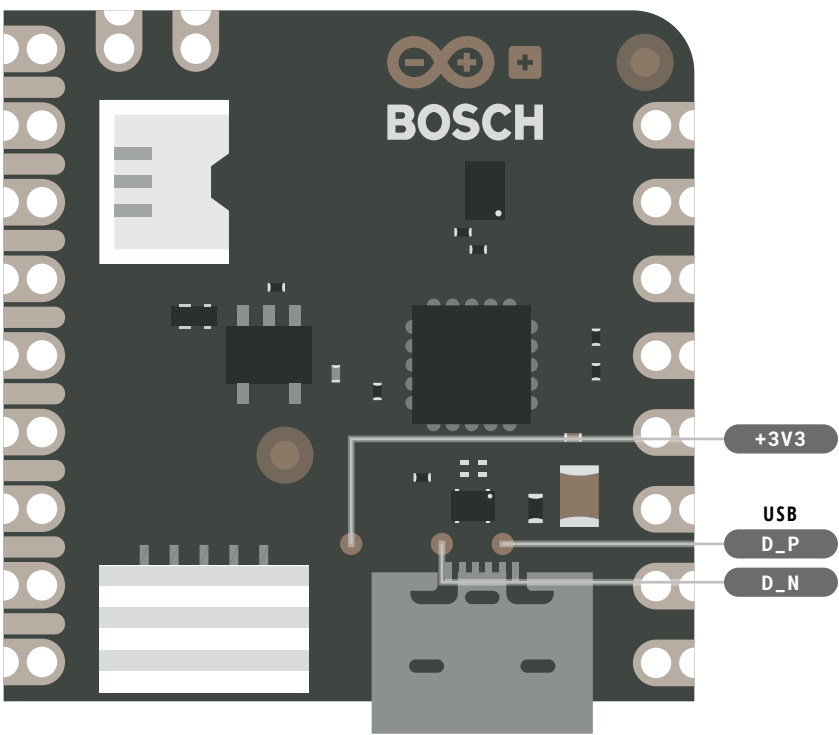
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Test Points

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

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