

I/O Expanders (PI410E5V6408):

- E0 @ 0x43 (buttons & LoRa control)
- E1 @ 0x44 (power/UI: LCD reset/backlight, GROVE power, VIN detect, LED)

Legend:

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

■ I <sup>2</sup> C	■ Default	■ LED
■ SPI	■ Default	■ RGB LED
■ UART/USART	■ Default	
■ Other SERIAL		
■ Analog	■ Default	
■ PWM/Timer		

**WARNING** All GPIO pins are 3.3V logic only and are not 5V tolerant.  
**WARNING** Handle the internal LiPo battery with care. Do not puncture, short-circuit, expose to high temperatures.

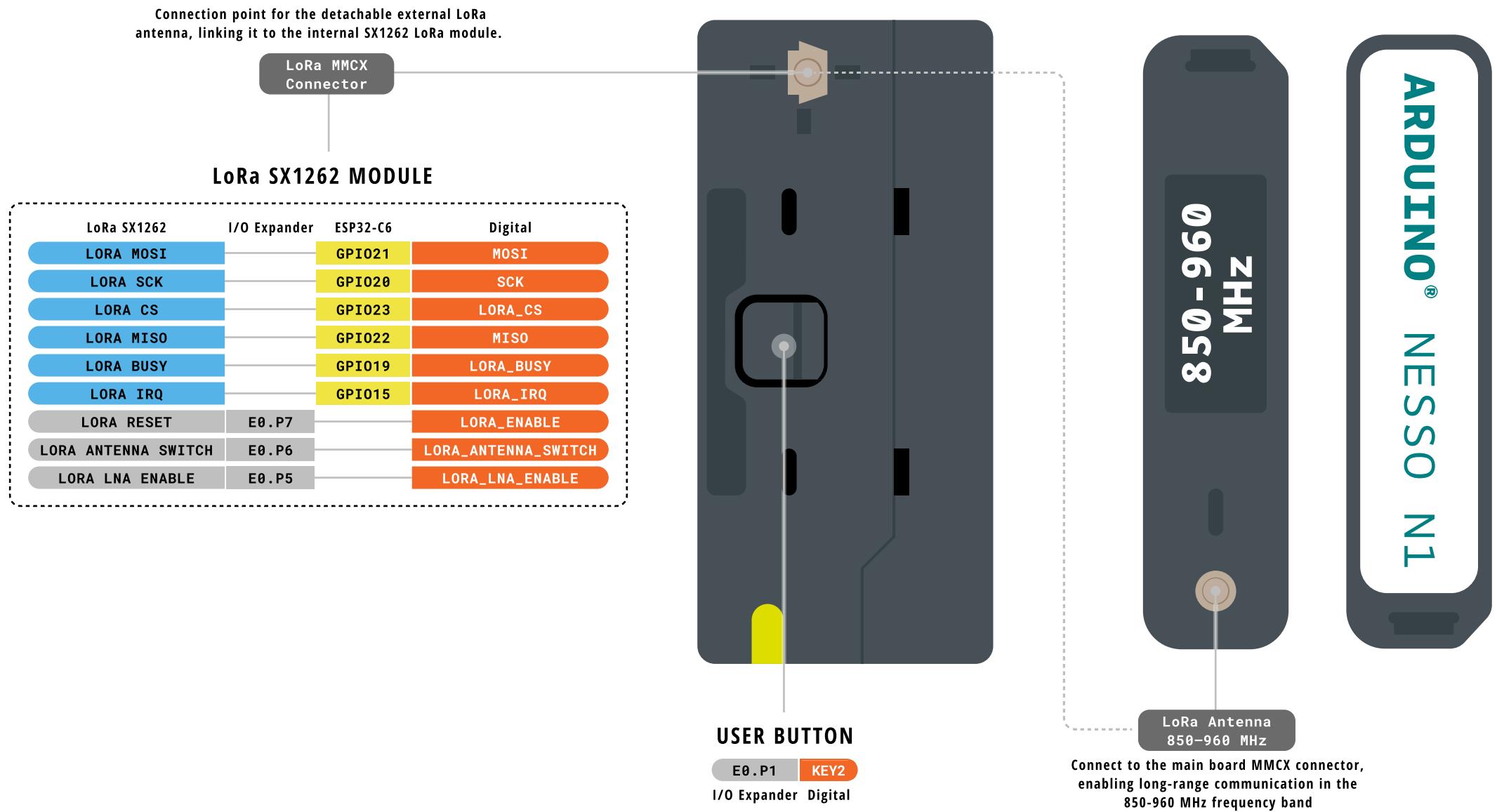
**NESSO N1**  
**ARDUINO**

SKU code: TPX00227  
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Last update: 24 Oct, 2025

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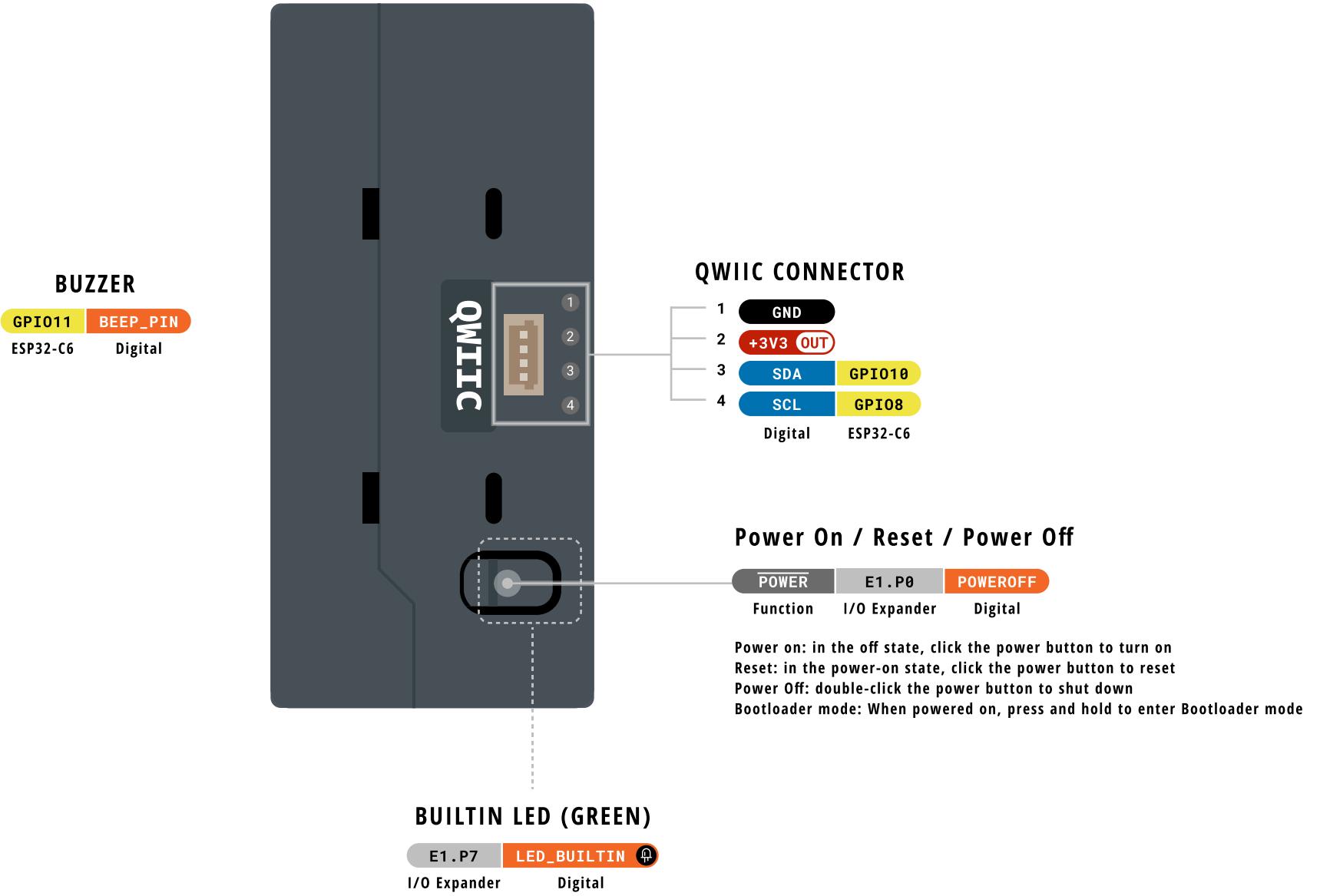
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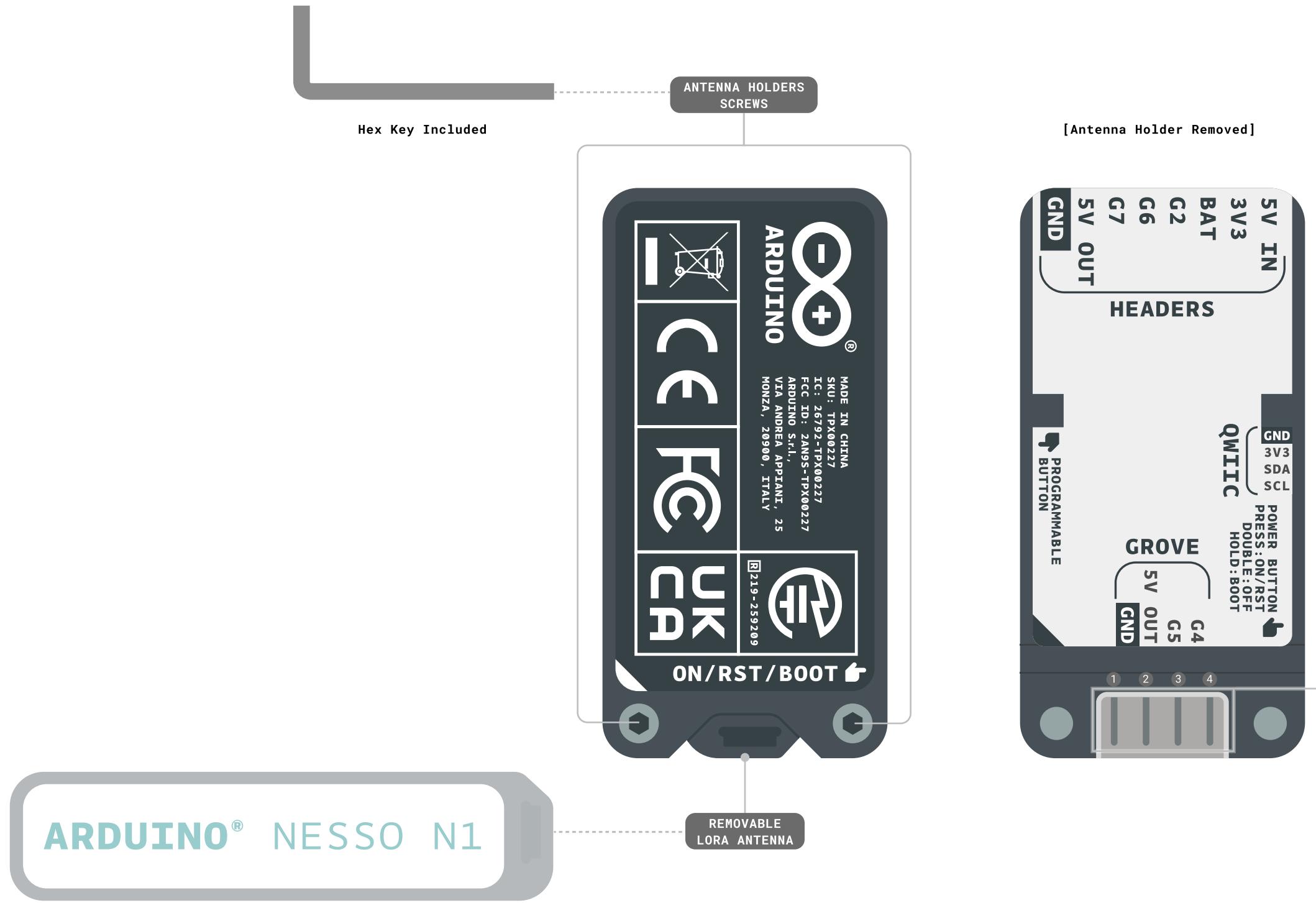
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		Main Part
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		Internal Component
		Other Pins (Reset, System Control, Debugging)

I2C	Default	LED
SPI	Default	RGB LED
UART/USART	Default	
Other SERIAL		
Analog	Default	
PWM/Timer		

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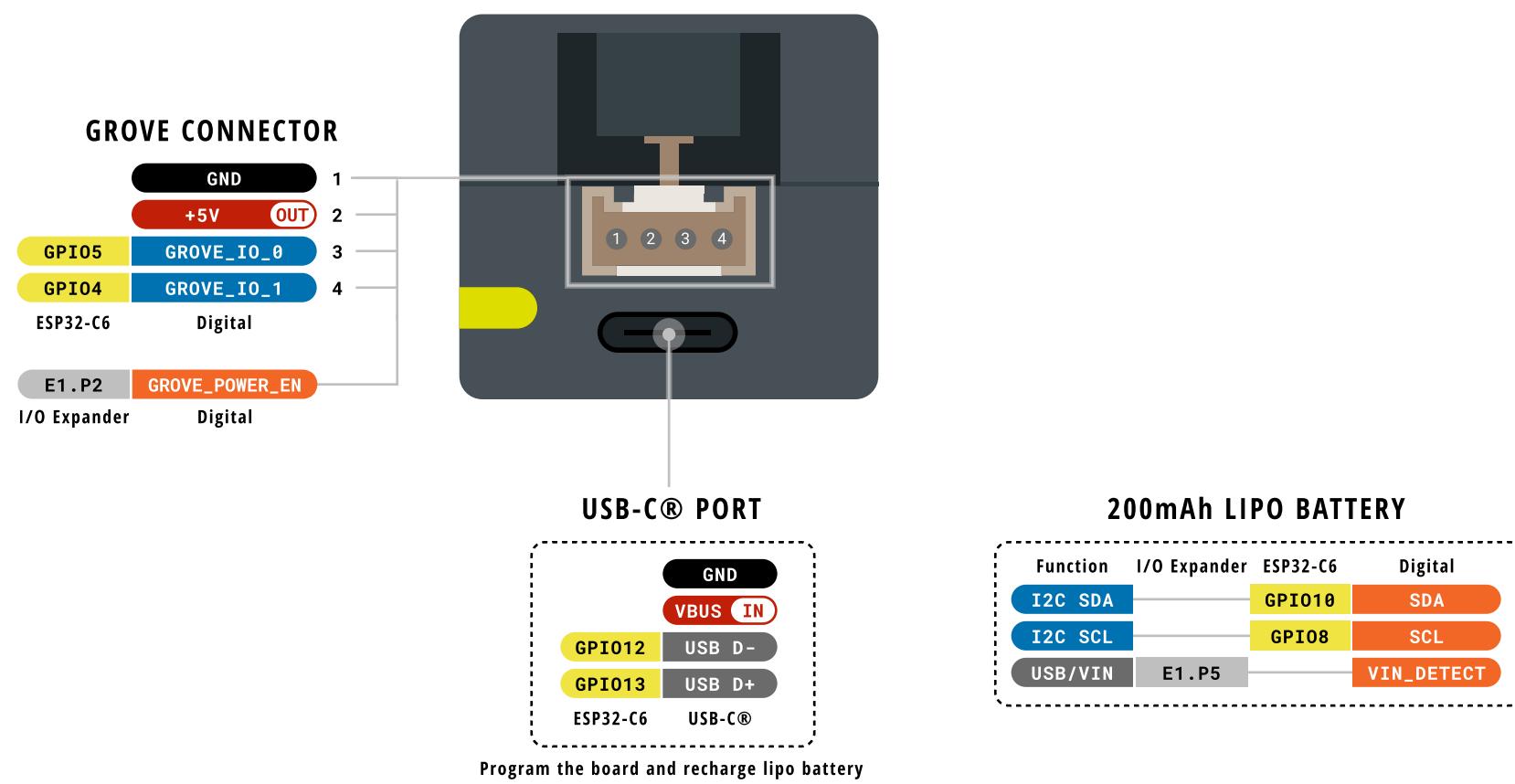


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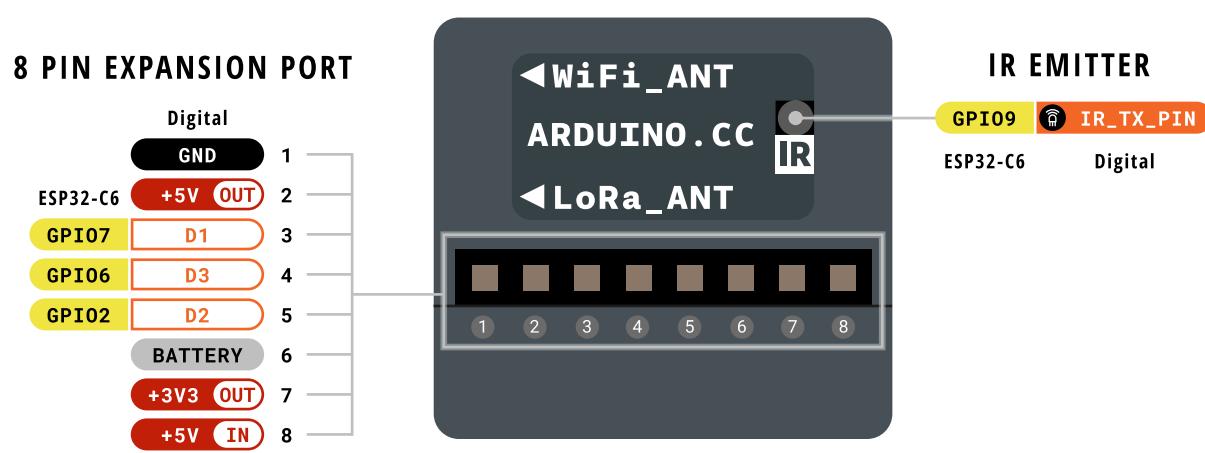
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**i** 8-pin expansion port compatible with the M5StickC HAT series

**Legend:**

■ Power    ■ IN Power Input    ■ Ground    ■ OUT Power Output

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

■ I2C    ■ D Default    ■ LED  
■ SPI    ■ D Default    ■ RGB LED  
■ UART/USART    ■ D Default  
■ Other SERIAL  
■ Analog    ■ D Default  
■ PWM/Timer

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