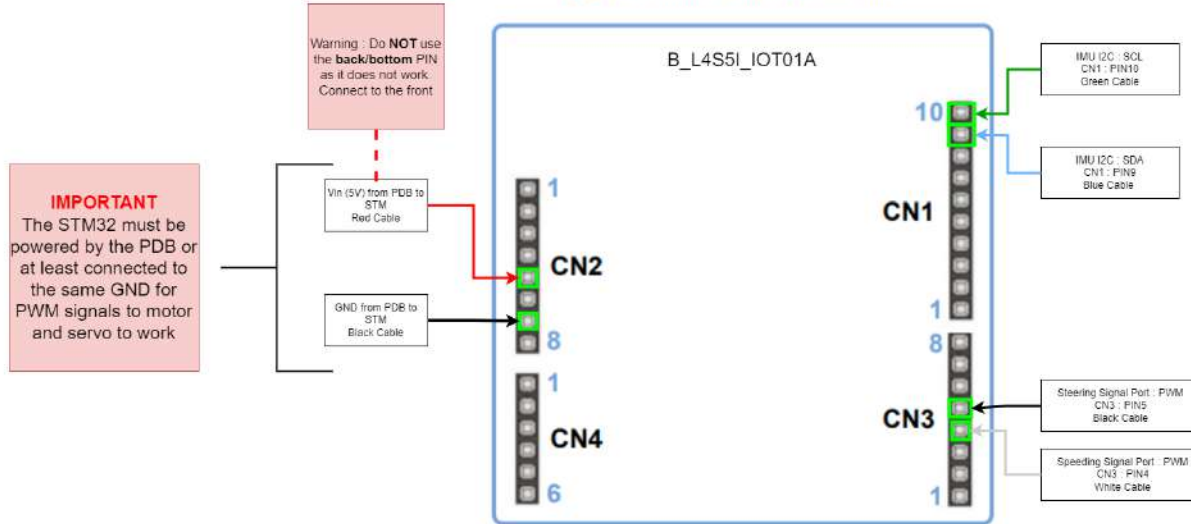


Upgraded STM32 B-L4S5I-IOT01A

Figure 17. ARDUINO® Uno V3 connectors



POWERBOARD CONNECTION DIAGRAM

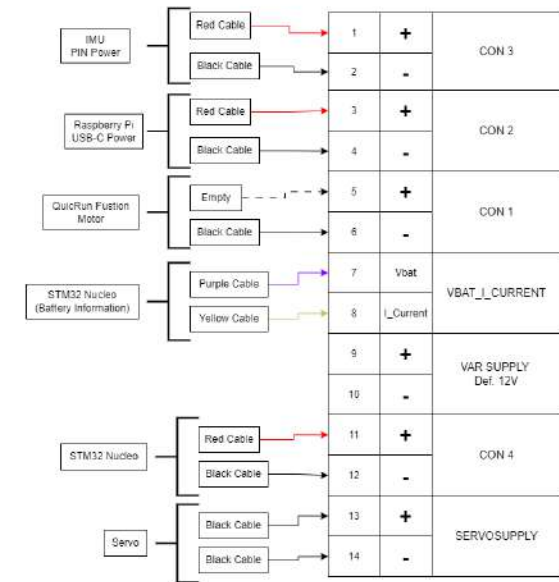


Table 6. ARDUINO® connector pinout

Connector	Pin number	Pin name	Signal name	STM32L 4+ pin	Function
CN2	1	ESV	-	-	-
	2	IOREF	-	-	3.3 V reference
	3	NRST	STM_Nrst	NRST	Reset
	4	3.3V	-	-	3.3 V I/O
	5	5V	-	-	5 V
	6	GND	-	-	GND
	7	GND	-	-	GND
	8	VIN	-	-	Power input
CN4	1	A0	ARD.A0-ADC	PC5	ADC
	2	A1	ARD.A1-ADC	PC4	ADC
	3	A2	ARD.A2-ADC	PC3	ADC
	4	A3	ARD.A3-ADC	PC2	ADC
	5	A4	ARD.A4-ADC	PC1	ADC / I2C3_SDA
	6	A5	ARD.A5-ADC	PC0	ADC / I2C3_SCL
CN1	10	SCL / D15	ARD.D15-I2C1_SCL	PB8	I2C1_SCL
	9	SDA / D14	ARD.D14-I2C1_SDA	PB9	I2C1_SDA
	8	AVDD	VDDA	-	VDDA
	7	GND	GND	-	Ground
	6	SCK / D13	ARD.D13-SPI1_SCK / LED1	PA5	SPI1_SCK / LED1
	5	MISO / D12	ARD.D12-SPI1_MISO	PA6	SPI1_MISO
	4	PWM / MOSI / D11	ARD.D11-SPI1_MOSI / PWM	PA7	SPI1_MOSI / TIMx
	3	PWM / CS / D10	ARD.D10-SPI1_SS / PWM	PA2	TIM2_CH3
CN3	2	PWM / D9	ARD.D9-PWM	PA15	TIM2_CH1
	1	D8	ARD.D8	PB2	GPIO
	8	D7	ARD.D7	PA4	GPIO
	7	PWM / D6	ARD.D6-PWM	PB1	TIM3_CH4
	6	PWM / D5	ARD.D5-PWM	PB4	TIM3_CH1
	5	D4	ARD.D4	PA3	TIMx
	4	PWM / D3	ARD.D3-PWM / INT_EXTIO	PB0	TIM3_CH3 / EXTIO
	3	D2	ARD.D2-INT0_EXTI14	PD14	EXTI14
	2	TX / D1	ARD.D1-UART4_TX	PA0	UART4_TX
	1	RX / D0	ARD.D0-UART4_RX	PA1	UART4_RX

PROVIDED : NUCLEO CONNECTION DIAGRAM

