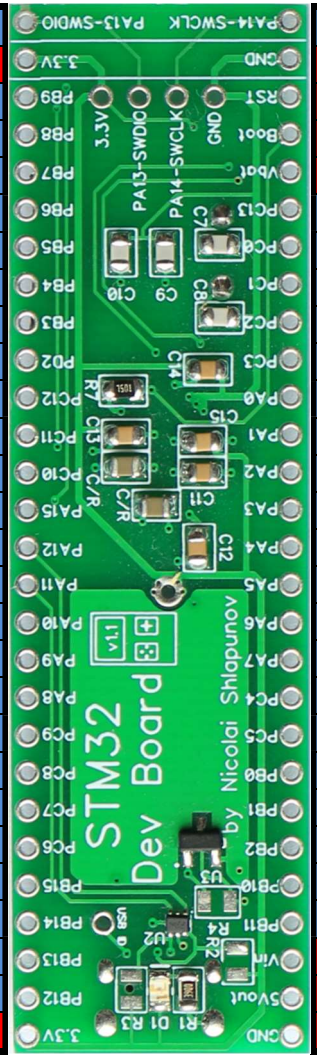
MCU module pinout:

			SWDIO	PA13		PA14	SWCLK			
				+3.3V		GND				
	I2C1 SDA	SDIO D5	CAN TX	PB9		Reset				
	I2C1 SCL	SDIO D4	CAN RX	PB8		BOOT0				
	I2C1 SDA		USART1 RX	PB7		Vbat (+3V)				
	I2C1 SCL		USART1 TX	PB6		PC13	TAMPER-RTC	RTC-TS	RTC-OUT	
I2S3 SD	I2C1 SMBA	SPI3 MOSI	SPI1 MOSI	PB5		PC0	ADC123 IN10			
		SPI3 MISO	SPI1 MISO	PB4		PC1	ADC123 IN11			
I2S3 CK		SPI3 SCK	SPI1 SCK	PB3		PC2	ADC123 IN12			
		USART5 RX	SDIO CMD	PD2		PC3	ADC123 IN13			
	SDIO CK	USART5 TX	USART3 CK	PC12		PA0	ADC123 IN0	USART2 CTS	WKUP	
	SDIO D3	USART4 RX	USART3 RX	PC11		PA1	ADC123 IN1	USART2 RTS		
	SDIO D2	USART4 TX	USART3 TX	PC10		PA2	ADC123 IN2	USART2 TX		
	I2S3 WS	SPI3 NSS	SPI1 NSS	PA15		PA3	ADC123 IN3	USART2 RX		
	CAN TX	USB DP	USART1 RTS	PA12		PA4	ADC12 IN4	USART2 CK	SPI1 NSS	DAC OUT1
	CAN RX	USB DM	USART1 CTS	PA11		PA5	ADC12 IN5		SPI1 SCK	DAC OUT2
			USART1 RX	PA10		PA6	ADC12 IN6		SPI1 MISO	
			USART1 TX	PA9		PA7	ADC12 IN7		SPI1 MOSI	
		MCO	USART1 CK	PA8		PC4	ADC12 IN12			
			SDIO D1	PC9		PC5	ADC12 IN15			
			SDIO D0	PC8		PB0	ADC12 IN8			
		I2S3 MCK	SDIO D7	PC7		PB1	ADC12 IN9			
		I2S2 MCK	SDIO D6	PC6		PB2	BOOT1			
	I2S2 SD		SPI2 MOSI	PB15		PB10	USART3 TX	I2C2 SCL		
		USART3 RTS	SPI2 MISO	PB14		PB11	USART3 RX	I2C2 SDA		
	I2S2 CK	USART3 CTS	SPI2 SCK	PB13		Vin				
I2C2 SMBA	I2S2 WS	USART3 CK	SPI2 NSS	PB12		5VOut				
				+3.3V		GND				



Notes:

- 5Vout: 5V from USB port
- Vin: input power for 3.3V LDO converter
- Vbat: input from 3V Li-Ion cell battery
- +3.3V: output from LDO converter