

Motor Driver Unit
26-03-A

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2025-2026

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1 Pin Configuration

1.1 Stepper Motors

1.1.1 ST1

- Step $\longrightarrow PA0$
- Dir $\longrightarrow PA1$

1.1.2 ST2

- Step $\longrightarrow PB8$
- Dir $\longrightarrow PB9$

1.1.3 ST3

- Step $\longrightarrow PB5$
- Dir $\longrightarrow PB4$

1.1.4 ST4

- Step $\longrightarrow PB3$
- Dir $\longrightarrow PA15$

1.2 DC Motors

1.2.1 DC1

- $\text{IN1/EN} \longrightarrow PA3$
- $\text{IN2/PH} \longrightarrow PB0$

1.2.2 DC2

- $\text{IN1/EN} \longrightarrow PB10$
- $\text{IN2/PH} \longrightarrow PB1$

1.2.3 DC3

- $\text{IN1/EN} \longrightarrow PB14$
- $\text{IN2/PH} \longrightarrow PB13$

1.2.4 DC4

- $\text{IN1/EN} \longrightarrow PA8$
- $\text{IN2/PH} \longrightarrow PB15$

1.3 Communication Protocols

1.3.1 I2C

- $SCL \rightarrow PB6$
- $SDA \rightarrow PB7$

1.3.2 UART

- $TX \rightarrow PA9$
- $RX \rightarrow PA10$

1.3.3 SPI

- $MOSI \rightarrow PA7$
- $MISO \rightarrow PA6$
- $CLK \rightarrow PA5$
- $CS \rightarrow PA4$

1.3.4 CAN

- $TX \rightarrow PA12$
- $RX \rightarrow PA11$

1.4 Additional Pins

- $A1 \longrightarrow PB11$
- $A2 \longrightarrow PC15$
- $S1 \longrightarrow PC13$
- $S2 \longrightarrow PC14$
- LKG Sensor $\longrightarrow PB12$
- LED Indicator $\longrightarrow PA2$

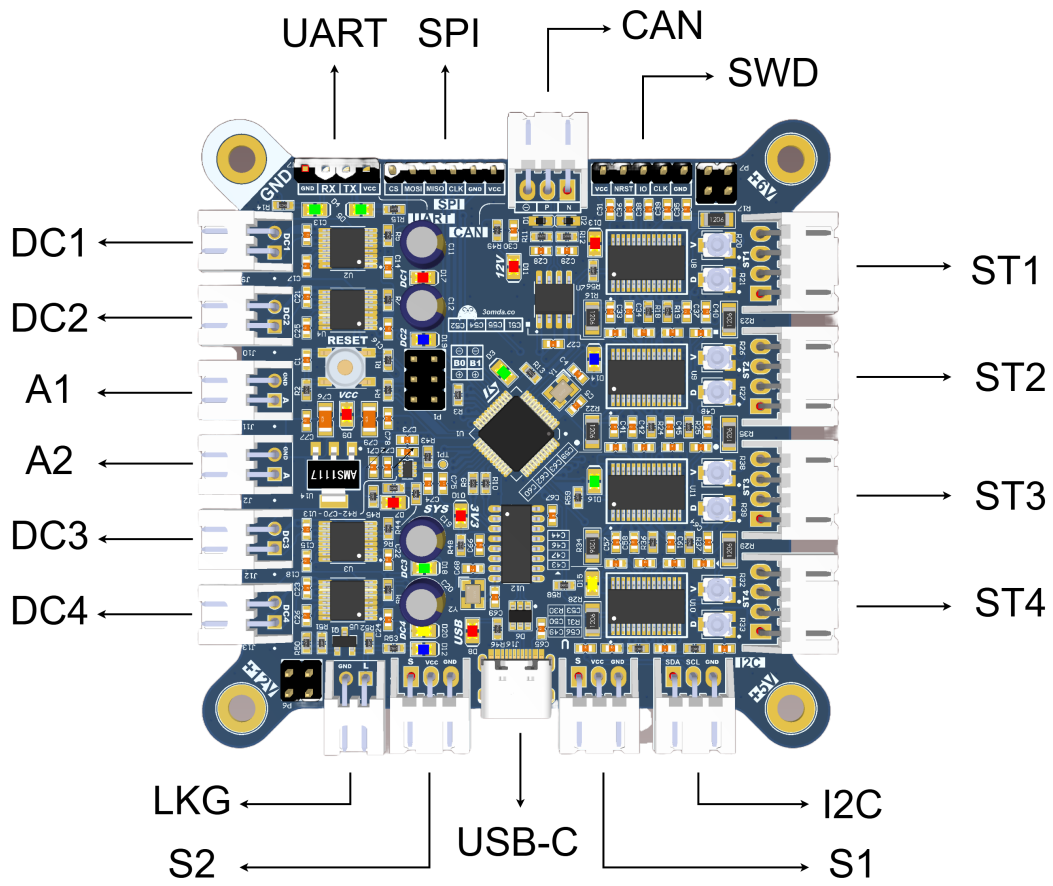


Figure 1: 3D view of the board with pins clarification