Motor Driver Unit
26-03-A

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Contents

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

- IN1/EN $\longrightarrow PA3$

- IN2/PH $\longrightarrow PB0$

1.2.2 DC2

- IN1/EN $\longrightarrow PB10$

- IN2/PH $\longrightarrow PB1$

1.2.3 DC3

- IN1/EN $\longrightarrow PB14$

- IN2/PH $\longrightarrow PB13$

1.2.4 DC4

- IN1/EN $\longrightarrow PA8$

- IN2/PH $\longrightarrow PB15$

1.3   Communication Protocols

1.3.1   I2C

- SCL $\longrightarrow PB6$

- SDA $\longrightarrow PB7$

1.3.2   UART

- TX $\longrightarrow PA9$

- RX $\longrightarrow PA10$

1.3.3   SPI

- MOSI $\longrightarrow PA7$

- MISO $\longrightarrow PA6$

- CLK $\longrightarrow PA5$

- CS $\longrightarrow PA4$

1.3.4   CAN

- TX $\longrightarrow PA12$

- RX $\longrightarrow PA11$

1.4   Additional Pins

- A1 $\longrightarrow PB11$

- A2 $\longrightarrow PC15$

- S1 $\longrightarrow PC13$

- S2 $\longrightarrow PC14$
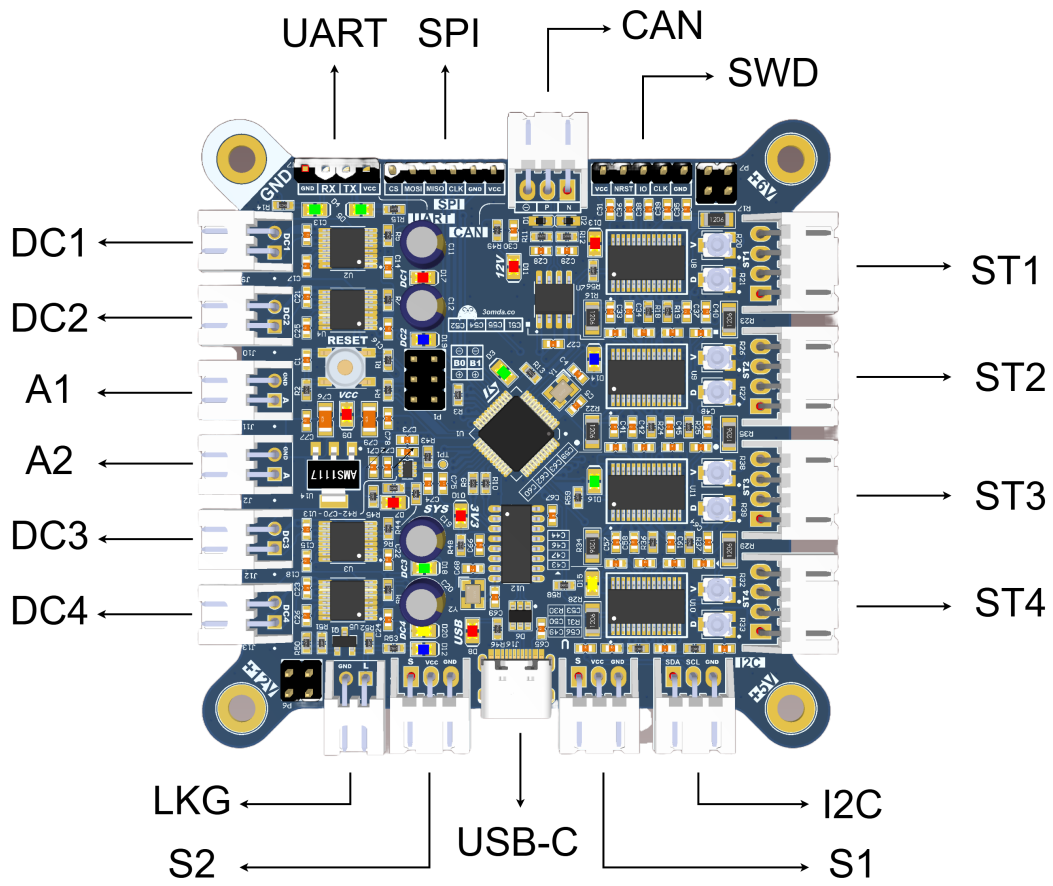
- LKG Sensor $\longrightarrow PB12$

- LED Indicator $\longrightarrow PA2$

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