

Motor Driver Unit  
26-03-A

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# 1 Pin Configuration

## 1.1 Stepper Motors

### 1.1.1 ST1

- Step  $\rightarrow PA0$

- Dir  $\rightarrow PA1$

### 1.1.2 ST2

- Step  $\rightarrow PB8$

- Dir  $\rightarrow PB9$

### 1.1.3 ST3

- Step  $\rightarrow PB5$

- Dir  $\rightarrow PB4$

### 1.1.4 ST4

- Step  $\rightarrow PB3$

- Dir  $\rightarrow PA15$

## **1.2 DC Motors**

### **1.2.1 DC1**

- IN1/EN —> PA3
- IN2/PH —> PB0

### **1.2.2 DC2**

- IN1/EN —> PB10
- IN2/PH —> PB1

### **1.2.3 DC3**

- IN1/EN —> PB14
- IN2/PH —> PB13

### **1.2.4 DC4**

- IN1/EN —> PA8
- IN2/PH —> 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 → *PB11*
- A2 → *PC15*
- S1 → *PC13*
- S2 → *PC14*
- LKG Sensor → *PB12*
- LED Indicator → *PA2*

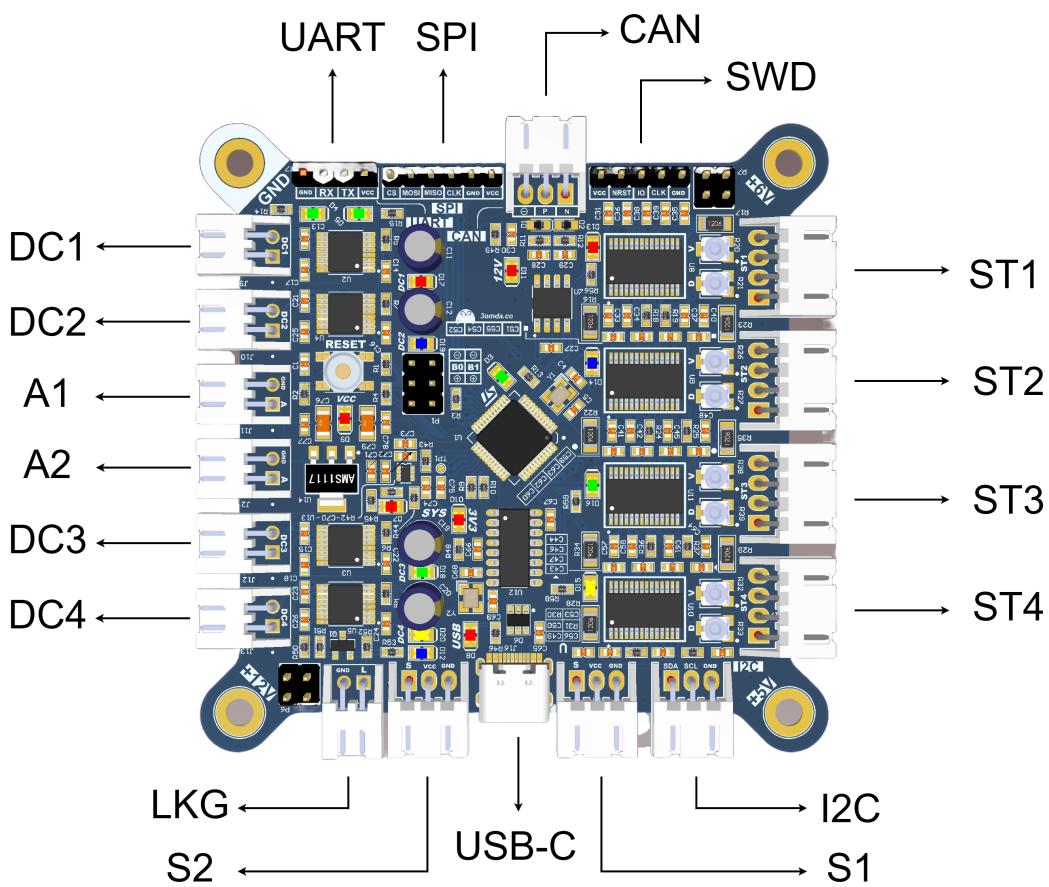


Figure 1: 3D view of the board with pins clarification